Lexmark E460dn, E460dw, and E462dtn

User's Guide

August 2011 **www.lexmark.com**

Machine type(s):

4513

Model(s):

630, 63W, 6EW

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Safety information

CAUTION—POTENTIAL INJURY: See the enclosed *Safety Sheet* before making any cable or electrical connection.

Connect the power cord to a properly grounded electrical outlet that is near the product and easily accessible.

Do not place or use this product near water or wet locations.

CAUTION—POTENTIAL INJURY: This product uses a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This product uses a printing process that heats the print media, and the heat may cause the media to release emissions. You must understand the section in your operating instructions that discusses the guidelines for selecting print media to avoid the possibility of harmful emissions.

Use care when you replace a lithium battery.

CAUTION—POTENTIAL INJURY: There is a danger of explosion if a lithium battery is incorrectly replaced. Replace it only with the same or an equivalent type of lithium battery. Do not recharge, disassemble, or incinerate a lithium battery. Discard used batteries according to the manufacturer's instructions and local regulations.

CAUTION—HOT SURFACE: The fuser and the inside of the printer near the fuser may be hot. To reduce the risk of injury from a hot component, allow the surface to cool before removing paper from this area.

CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to lift it safely.

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

CAUTION—SHOCK HAZARD: Make sure that all external connections (such as Ethernet and telephone system connections) are properly installed in their marked plug-in ports.

This product is designed, tested, and approved to meet strict global safety standards with the use of specific manufacturer's components. The safety features of some parts may not always be obvious. The manufacturer is not responsible for the use of other replacement parts.

CAUTION—POTENTIAL INJURY: Do not cut, twist, bind, crush, or place heavy objects on the power cord. Do not subject the power cord to abrasion or stress. Do not pinch the power cord between objects such as furniture and walls. If any of these things happen, a risk of fire or electrical shock results. Inspect the power cord regularly for signs of such problems. Remove the power cord from the electrical outlet before inspecting it.

Refer service or repairs, other than those described in the user documentation, to a professional service person.

CAUTION—SHOCK HAZARD: To avoid the risk of electric shock when cleaning the exterior of the printer, unplug the power cord from the wall outlet and disconnect all cables from the printer before proceeding.

CAUTION—SHOCK HAZARD: Do not use the fax feature during a lightning storm. Do not set up this product or make any electrical or cabling connections, such as the fax feature, power cord, or telephone, during a lightning storm.

See the product *User's Guide* for additional safety information.

SAVE THESE INSTRUCTIONS.

Learning about the printer

Thank you for choosing this printer!

We've worked hard to make sure it will meet your needs.

To start using your new printer right away, use the setup materials that came with the printer, and then skim the *User's Guide* to learn how to perform basic tasks. To get the most out of your printer, read the *User's Guide* carefully, and make sure you check the latest updates on our Web site.

We're committed to delivering performance and value with our printers, and we want to make sure you're satisfied. If you do encounter any problems along the way, one of our knowledgeable support representatives will be delighted to help you get back on track fast. And if you find something we could do better, please let us know. After all, you are the reason we do what we do, and your suggestions help us do it better.

Finding information about the printer

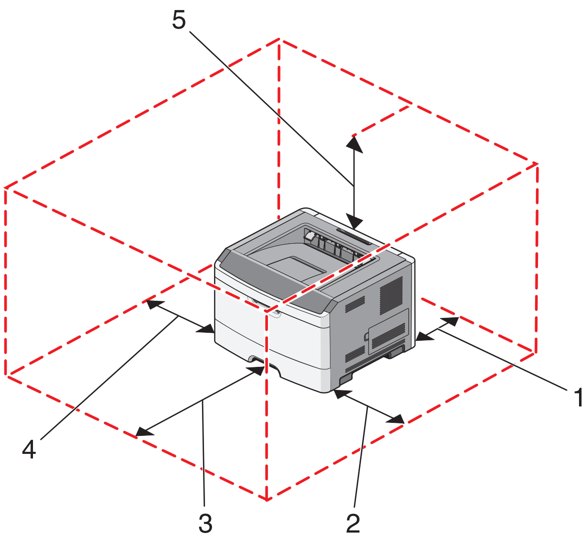
What are you looking for?	Find it here
Initial setup instructions: • Connecting the printer • Installing the printer software	Setup documentation—The setup documentation came with the printer and is also available on the Lexmark Web site at **http://support.lexmark.com**.
Additional setup and instructions for using the printer: • Selecting and storing paper and specialty media • Loading paper • Performing printing depending on your printer model • Configuring printer settings • Viewing and printing documents and photos • Setting up and using printer software • Setting up and configuring the printer on a network, depending on your printer model • Caring for and maintaining the printer • Troubleshooting and solving problems	*User's Guide*—The *User's Guide* is available on the *Software and Documentation* CD. For updates, check our Web site at **http://support.lexmark.com**.
Help using the printer software	Windows or Mac Help—Open a printer software program or application, and then click **Help**. Click ? to view context-sensitive information. **Notes:** • The Help installs automatically with the printer software. • The printer software is located in the printer Program folder or on the desktop, depending on your operating system.

What are you looking for?	Find it here
The latest supplemental information, updates, and technical support: • Documentation • Driver downloads • Live chat support • E-mail support • Telephone support	Lexmark Support Web site—**http://support.lexmark.com** **Note:** Select your region, and then select your product to view the appropriate support site. Support telephone numbers and hours of operation for your region or country can be found on the Support Web site or on the printed warranty that came with your printer. Record the following information (located on the store receipt and the back of the printer), and have it ready when you contact support so that they may serve you faster: • Machine Type number • Serial number • Date purchased • Store where purchased
Warranty information	Warranty information varies by country or region: • **In the US**—See the Statement of Limited Warranty included with this printer, or at **http://support.lexmark.com**. • **Rest of the world**—See the printed warranty that came with your printer.

Selecting a location for the printer

When selecting a location for the printer, leave enough room to open trays, covers, and doors. If you plan to install any options, leave enough room for them also. It is important to:

- Make sure airflow in the room meets the latest revision of the ASHRAE 62 standard.
- Provide a flat, sturdy, and stable surface.
- Keep the printer:
  - Away from the direct airflow of air conditioners, heaters, or ventilators
  - Free from direct sunlight, humidity extremes, or temperature fluctuations
  - Clean, dry, and free of dust
- Allow the following recommended amount of space around the printer for proper ventilation:

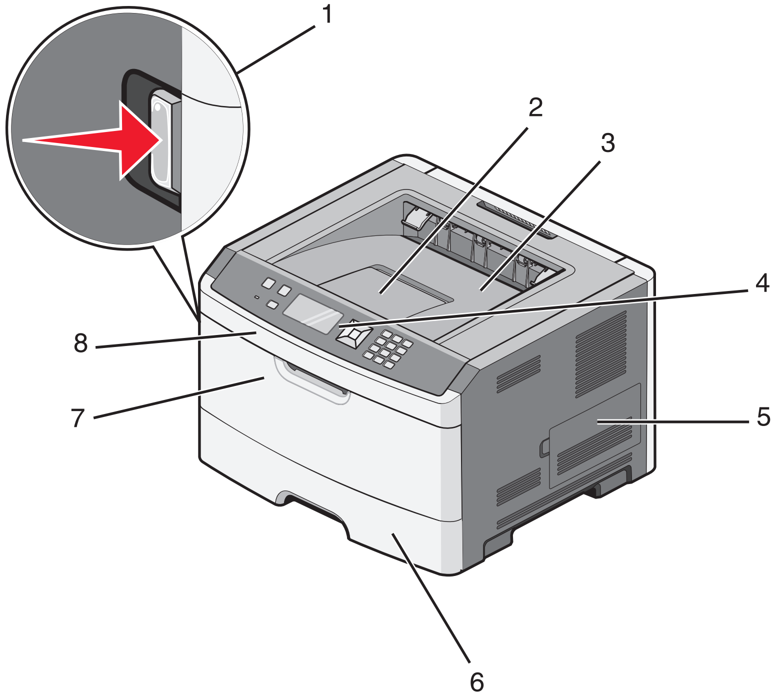


1	Rear	300 mm (12 in.)
2	Right side	200 mm (8 in.)
3	Front	300 mm (12 in.)
4	Left side	12.7 mm (0.5 in.)
5	Top	300 mm (12 in.)

Printer configurations

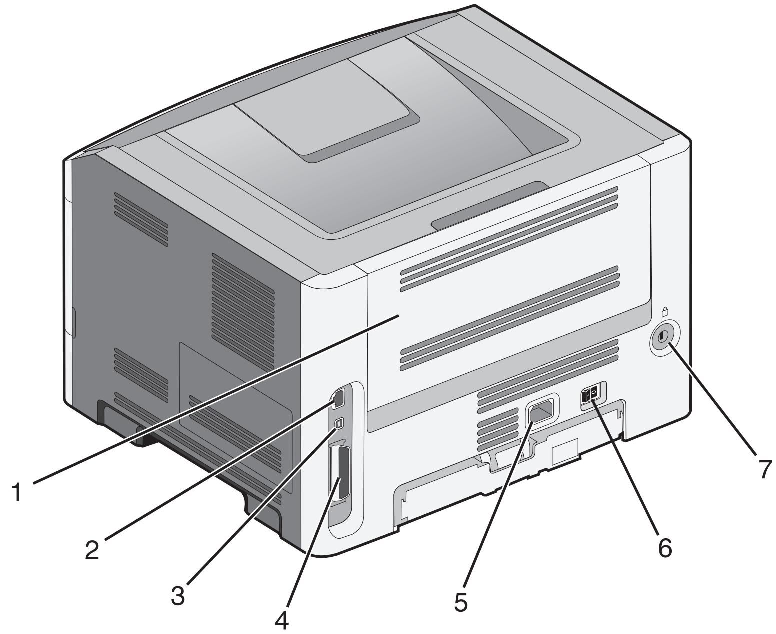
Basic model

The following illustration shows the printer front with its basic features or parts:



1	Front door release button
2	Paper stop
3	Standard exit bin
4	Printer control panel
5	System board door
6	Standard 250-sheet tray (Tray 1)
7	Multipurpose feeder door
8	Front door

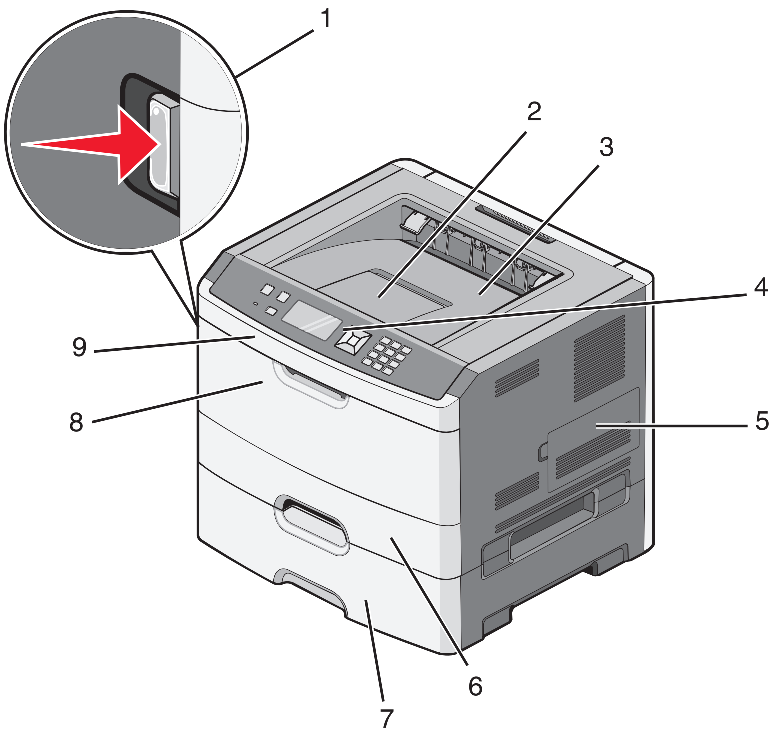
The following illustration shows the printer back with its basic features or parts:



1	Rear door
2	Ethernet port
3	USB port
4	Parallel port **Note:** Not available on all models.
5	Printer power cord socket
6	Power switch
7	Security slot

Configured models

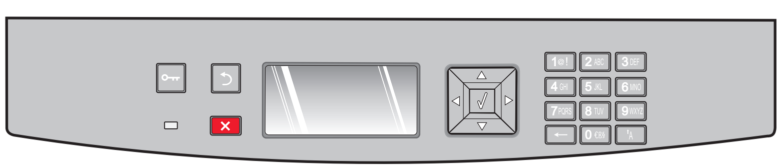
The following illustration shows the printer configured with an optional drawer:



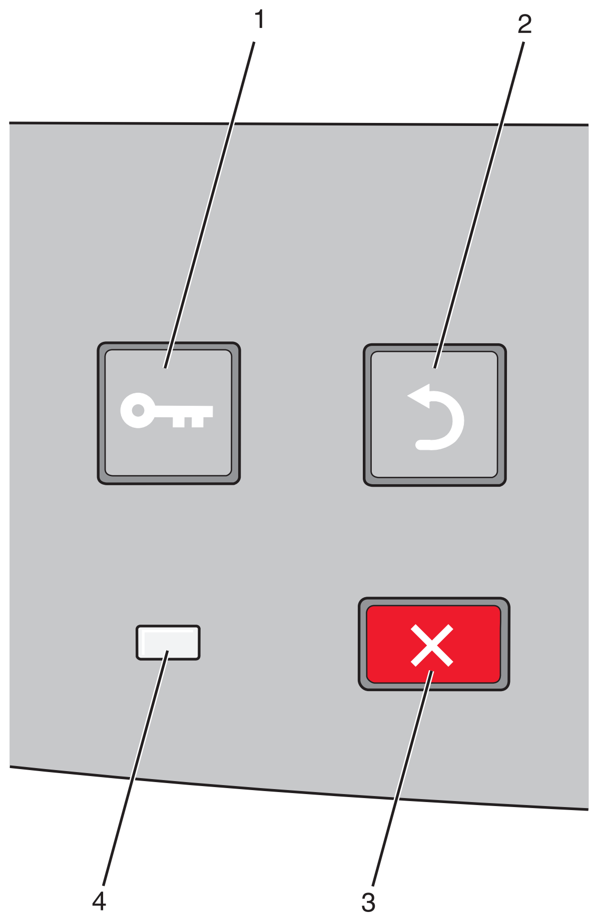
1	Front door release button
2	Paper stop
3	Standard exit bin
4	Printer control panel
5	System board door
6	Standard 250-sheet tray (Tray 1)
7	Optional 250- or 550-sheet drawer (Tray 2)
8	Multipurpose feeder door
9	Front door

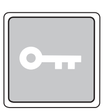
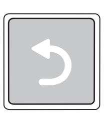
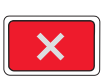
Understanding the printer control panel

The following diagram shows the printer control panel:

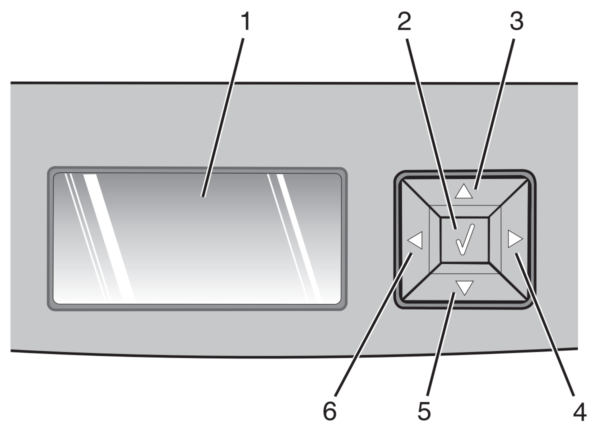


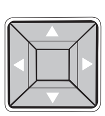
The following diagrams and tables provide more information about the printer control panel items:

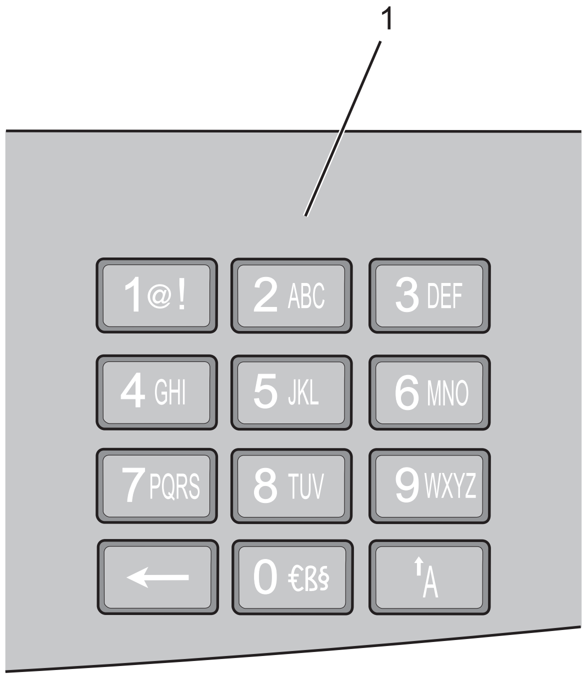


Item		Description
1	Menus button ( ) 	Opens the menus **Note:** The menus are available only when the printer is in the `Ready` state.
2	Back button ( ) 	Returns the display to the previous screen
3	Stop button ( ) 	Stops all printer activity When printing, pressing causes `Stopping` to appear momentarily. Then the `Stopped` screen appears offering a list of settings that you may select.

Item		Description
4	Indicator light	Indicates the printer status: • **Off**—The power is off. • **Blinking green**—The printer is warming up, processing data, or printing. • **Solid green**—The printer is on, but idle. • **Solid red**—Operator intervention is needed.



Item		Description
1	Display	Shows messages that communicate the status of the printer or that indicate possible printer problems that must be resolved. The display is also capable of showing pictures of Show Me instructions, which show you how to perform a task like clearing a jam.
2	Select button (√) 	• Opens a menu and displays the first item in the menu (called a menu item) • Opens a menu item and displays the available values or settings. The current user default setting is indicated by an asterisk (*). • Saves the displayed menu item as the new user default setting **Note:** When a new setting is saved as the user default setting, it remains in effect until new settings are saved or until factory defaults are restored. Settings chosen from a software program can also change or override the user default settings selected from the printer control panel.
3, 4, 5, 6	Navigation buttons 	Press the up or down arrow buttons to scroll through menus, menu items, or settings (also called values or options), or to scroll between screens and menu options. **Note:** Each press of the up or down arrow buttons moves you one item in any list. Press the right or left arrow buttons to increase or decrease a value or to scroll through text that rolls to another screen.

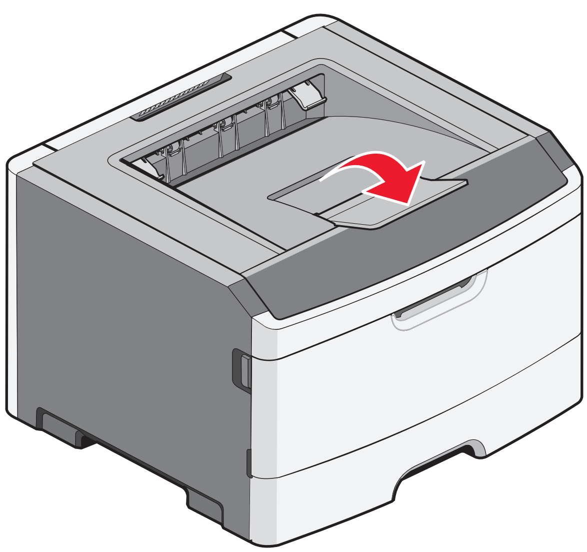


Item		Description
1	Keypad	Enter numbers or symbols if the display screen has a field that accepts these entries.

Using the standard exit bin and paper stop

The standard exit bin holds up to 150 sheets of 20 lb paper. It collects print jobs facedown. The standard exit bin includes a paper stop that keeps paper from sliding out the front of the bin as it stacks. The paper stop also aids in neater stacking of the paper.

To open the paper stop, pull it so it flips forward.



Notes:

- Do not leave the paper stop in the open position if you are printing on transparencies. Doing so may cause creases in the transparencies.
- When moving the printer to another location, make sure the paper stop is closed.

Additional printer setup

Installing internal options

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

You can customize your printer connectivity and memory capacity by adding optional cards. The instructions in this section explain how to install the available cards; you can also use them to locate a card for removal.

Available internal options

Memory cards

- Printer memory
- Flash memory
- Fonts

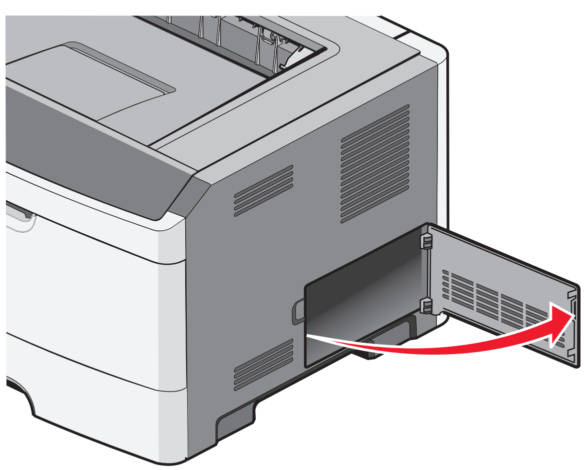
Firmware cards

- Forms and Barcode Card
- PrintCryption™

Accessing the system board to install internal options

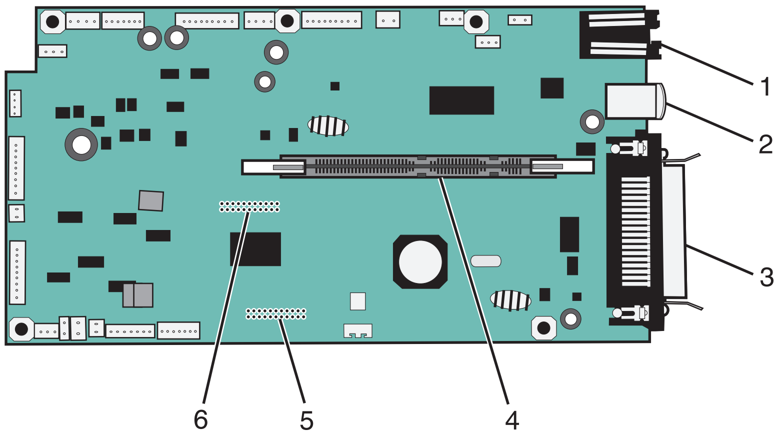
CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

1 As you face the printer, the system board door is on the right side. Open the system board door.



2 Use the following illustration to locate the appropriate connector.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.



1	Ethernet connector
2	USB port
3	Parallel connector **Note:** Not available on all models.
4	Memory card connector
5	Optional card connector
6	Optional card connector

Installing a memory card

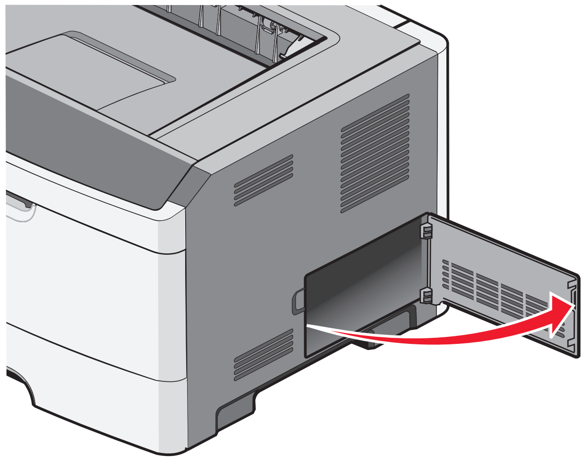
CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch a metal surface on the printer before touching any system board electronic components or connectors.

An optional memory card can be purchased separately and attached to the system board. To install the memory card:

1 Turn the printer off.

2 Access the system board.



3 Unpack the memory card.

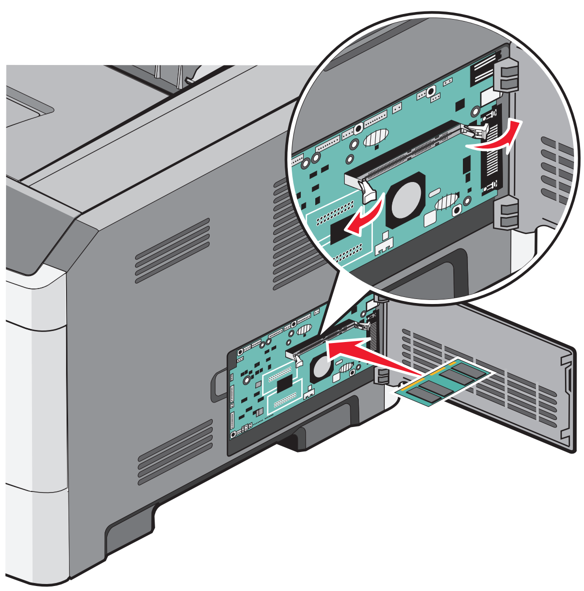
Note: Avoid touching the connection points along the edge of the card.

4 Align the memory card with its connector on the system board.

5 Push open the latches on both ends of the memory connector.

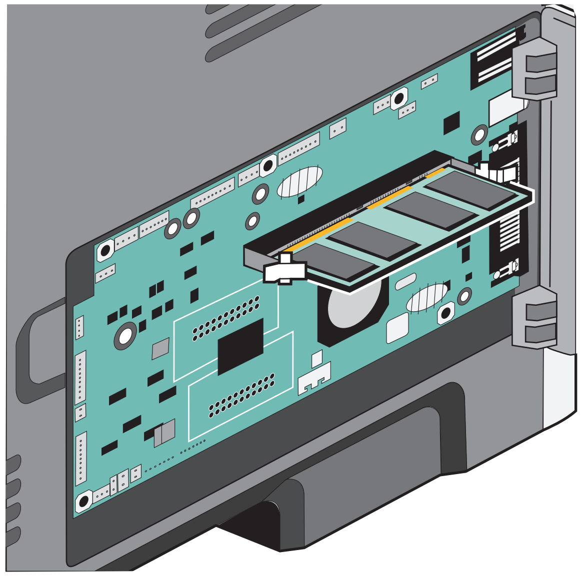
Warning—Potential Damage: Memory cards are easily damaged by static electricity. Touch a grounded metal surface before you touch a memory card.

Note: Memory cards designed for other printers may not work with your printer.



6 Push the memory card into the connector until the latches *click* into place.

It may require some force to fully seat the card.



7 Ensure that each latch fits over the notch on each end of the card.

8 Close the system board door.

9 Turn the printer back on.

10 Open the printers folder:

   a Click [Windows Start button icon], or click **Start** and then click **Run**.

   b In the Start Search or Run box, type `control printers`.

   c Press **Enter**, or click **OK**.

   The printers folder opens.

11 Right-click your printer icon.

12 Click **Properties**.

13 Click **Install Options**.

   Note: Memory cards designed for other printers may not work with your printer.

14 Click **Ask Printer**.

15 Click **OK**.

16 Click **OK**, and then close the printers folder.

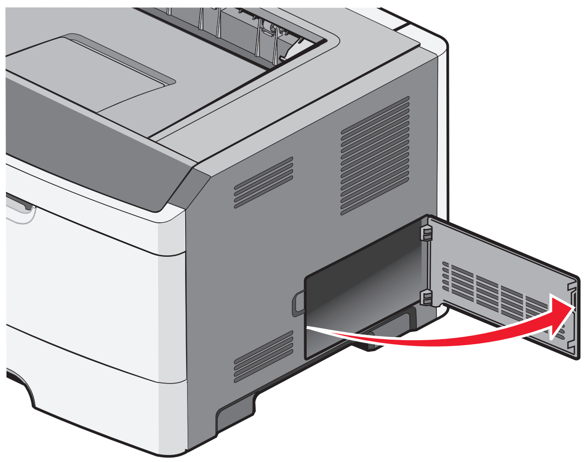
Installing a flash memory or firmware card

The system board has two connections for an optional flash memory or firmware card. Only one of each may be installed, but the connectors are interchangeable.

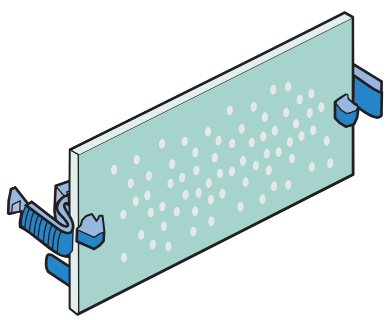
CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

Warning—Potential Damage: System board electronic components are easily damaged by static electricity. Touch something metal on the printer before touching any system board electronic components or connectors.

1 Open the system board door.



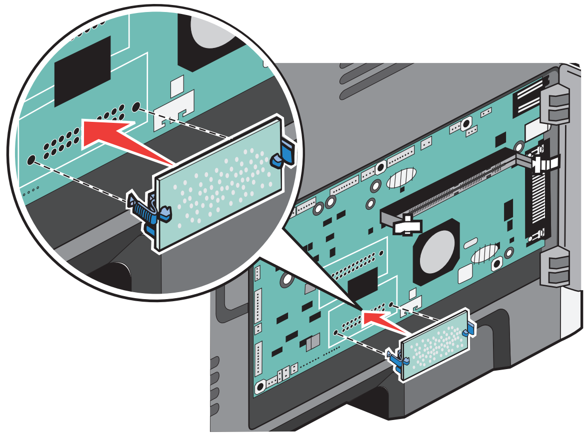
2 Unpack the card.



Note: Avoid touching the connection points along the edge of the card.

3 Holding the card by its sides, align the card with the connector on the system board.

4 Push the card firmly into place.



Notes:

- The entire length of the connector on the card must touch and be flush against the system board.
- Be careful not to damage the connectors.

5 Close the system board door.

Installing hardware options

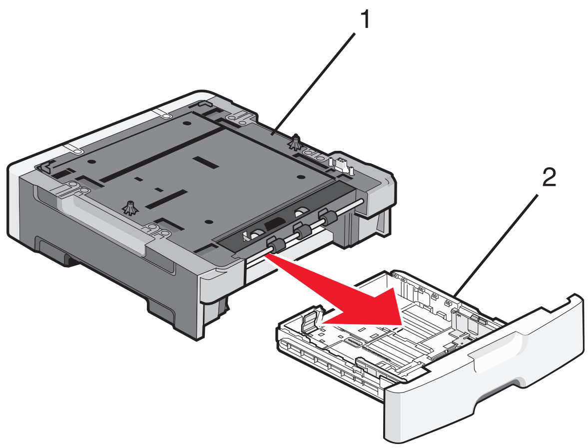
Installing a 250‑ or 550‑sheet drawer

CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to move it safely.

An optional drawer attaches under the printer. A drawer consists of two parts: a tray and a support unit. The printer supports one optional drawer; you can install a 250‑ or 550‑sheet drawer.

CAUTION—SHOCK HAZARD: If you are accessing the system board or installing optional hardware or memory devices sometime after setting up the printer, then turn the printer off, and unplug the power cord from the wall outlet before continuing. If you have any other devices attached to the printer, then turn them off as well, and unplug any cables going into the printer.

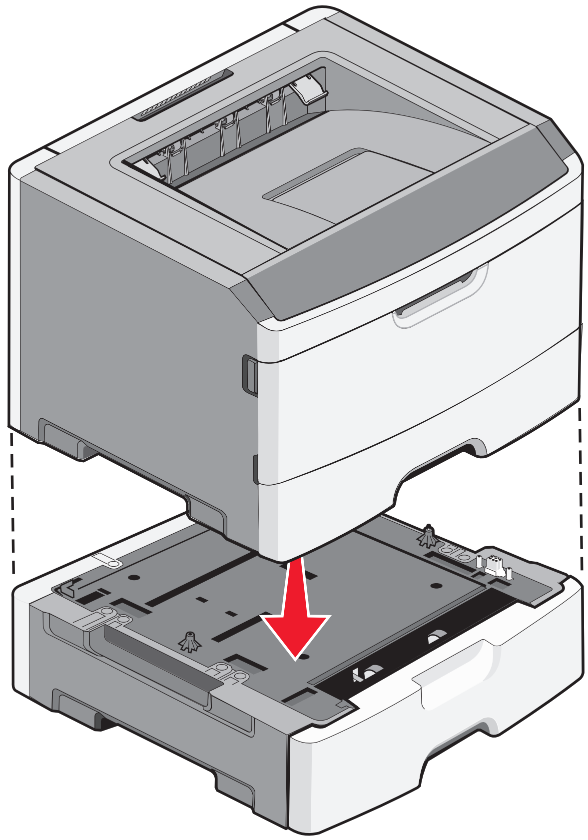
1. Unpack the drawer, and remove any packing material.
2. Remove the tray from the support unit.



1	Support unit
2	Tray

3. Remove any packing material and tape from inside the tray.
4. Insert the tray into the support unit.
5. Place the drawer in the location chosen for the printer.

6 Align the outer edges of the printer with the outer edges of the drawer, and then slowly lower the printer into place.



7 Turn the printer back on.

8 Open the printers folder:

a Click [Windows icon], or click **Start** and then click **Run**.

b In the Start Search or Run box, type `control printers`.

c Press **Enter**, or click **OK**.
The printers folder opens.

9 Right-click the icon of your printer.

10 Click **Properties**.

11 Click **Install Options**.

12 Click **Ask Printer**.

13 Click **OK**.

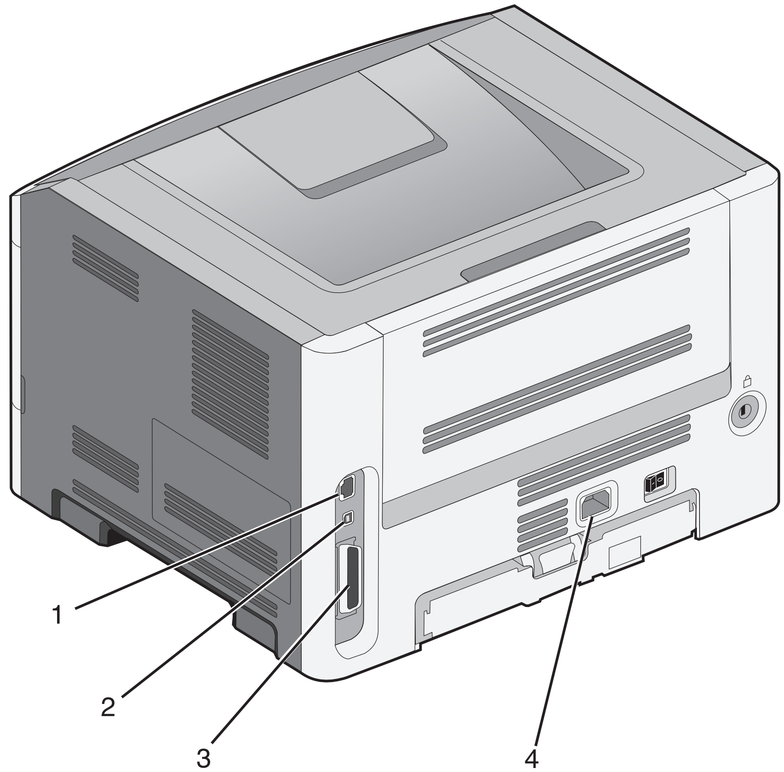
14 Click **OK**, and then close the printers folder.

Attaching cables

1 Connect the printer to a computer or a network.

- For a local connection, use a USB or parallel cable.
- For a network connection, use an Ethernet cable.

2 Connect the power cord to the printer first and then to a properly grounded wall outlet.



1	Ethernet port
2	USB port **Warning—Potential Damage:** Do not touch the USB cable, any network adapter, or the printer in the area shown while actively printing. A loss of data or a malfunction can occur.
3	Parallel port **Note:** If your printer is a wireless model, the wireless antenna is attached here.
4	Power cord socket

Verifying printer setup

Printing a menu settings page

Print a menu settings page to review the current menu settings and to verify if the printer options are installed correctly.

Note: If you have not made any menu item settings changes yet, then the menu settings page lists all the factory default settings. Once you select and save other settings from the menus, they replace the factory default settings as *user default settings*. A user default setting remains in effect until you access the menu again, choose another value, and save it.

1 Make sure the printer is on and `Ready` appears.

2 From the printer control panel, press ⊶.

3 Press the up or down arrow button until √**`Reports`** appears, and then press ✓.

4 Press the up or down arrow button until √**`Menu Settings Page`** appears, and then press ✓.

After the menu settings page prints, the printer returns to the **`Ready`** state.

Printing a network setup page

If the printer is attached to a network, then print a network setup page to verify the network connection. This page also provides important information that aids network printing configuration.

1 Make sure the printer is on and **`Ready`** appears.

2 From the printer control panel, press the Menu button.

3 Press the up or down arrow button until √**`Reports`** appears, and then press ✓.

4 Press the up or down arrow button until √**`Network Setup Page`** appears, and then press ✓.

   Note: If an optional internal print server is installed, **Print Network <x> Setup Page** appears.

5 Check the first section on the network setup page, and confirm that Status is “Connected.”

   If Status is “Not Connected,” the LAN drop may not be active, or the network cable may be malfunctioning. Consult a system support person for a solution, and then print another network setup page.

Setting up the printer software

Installing printer software

A printer driver is software that lets the computer communicate with the printer. The printer software is typically installed during the initial printer setup.

For Windows users

1 Close all open software programs.

2 Insert the *Software and Documentation* CD.

3 From the main installation dialog, click **Install Printer and Software**.

4 Follow the instructions on the computer screen.

For Macintosh users

1 Close all open software applications.

2 Insert the *Software and Documentation* CD.

3 From the Finder desktop, double-click the printer CD icon that automatically appears.

4 Double-click the **Install Printer and Software** icon.

5 Follow the instructions on the computer screen.

Using the World Wide Web

1. Go to the Lexmark Web site at **www.lexmark.com**.
2. From the Drivers & Downloads menu, click **Driver Finder**.
3. Select your printer, and then select your operating system.
4. Download the driver and install the printer software.

Updating available options in the printer driver

Once the printer software and any options are installed, it may be necessary to manually add the options in the printer driver to make them available for print jobs.

For Windows users

1. Open the Printers folder:
   - **a** Click , or click **Start** and then click **Run**.
   - **b** In the Start Search or Run box, type `control printers`.
   - **c** Press **Enter**, or click **OK**.
     The printer folder opens.
2. Select the printer.
3. Right-click the printer, and then select **Properties**.
4. Click the Install Options tab.
5. Under Available Options, add any installed hardware options.
6. Click **Apply**.

For Macintosh users

In Mac OS X version 10.5 or later

1. From the Apple menu, choose **System Preferences**.
2. Click **Print & Fax**.
3. Select the printer, and then click **Options & Supplies**.
4. Click **Driver**, and then add any installed hardware options.
5. Click **OK**.

In Mac OS X version 10.4 and earlier

1. From the Finder desktop, choose **Go** > **Applications**.
2. Double-click **Utilities**, and then double-click **Print Center** or **Printer Setup Utility**.
3. Select the printer, and then from the Printers menu, choose **Show Info**.
4. From the pop-up menu, choose **Installable Options**.
5. Add any installed hardware options, and then click **Apply Changes**.

Setting up wireless printing

Note: A Service Set Identifier (SSID) is a name assigned to a wireless network. Wireless Encryption Protocol (WEP) and Wi‑Fi Protected Access (WPA) are types of security used on a network.

Information you will need to set up the printer on a wireless network

Note: Do not connect the installation or network cables until prompted to do so by the setup software.

- **SSID**—The SSID is also referred to as the network name.
- **Wireless Mode (or Network Mode)**—The mode will be either infrastructure or ad hoc.
- **Channel (for ad hoc networks)**—The channel defaults to auto for infrastructure networks.

  Some ad hoc networks will also require the auto setting. Check with your system support person if you are not sure which channel to select.
- **Security Method**—There are three basic options for Security Method:
  - WEP key

    If your network uses more than one WEP key, enter up to four in the provided spaces. Select the key currently in use on the network by selecting the Default WEP Transmit Key.

    or
  - WPA or WPA2 passphrase

    WPA includes encryption as an additional layer of security. The choices are AES or TKIP. Encryption must be set for the same type on the router and on the printer, or the printer will not be able to communicate on the network.
  - No security

    If your wireless network does not use any type of security, then you will not have any security information.

    Note: Using an unsecured wireless network is not recommended.

If you are installing the printer on an 802.1X network using the Advanced method, then you may need the following:

- Authentication type
- Inner authentication type
- 802.1X username and password
- Certificates

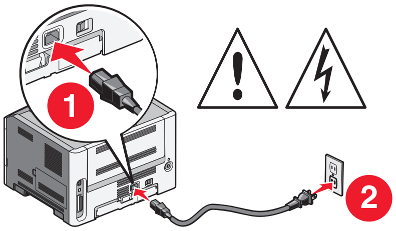
Note: For more information on configuring 802.1X security, see the *Networking Guide* on the *Software and Documentation* CD.

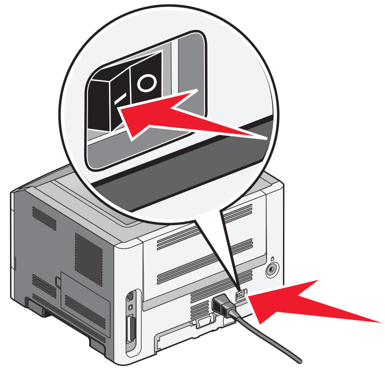
Installing the printer on a wireless network (Windows)

Before you install the printer on a wireless network, make sure that:

- Your wireless network is set up and working properly.
- The computer you are using is connected to the same wireless network where you want to set up the printer.

1 Connect the power cable to the printer and then to a properly grounded electrical outlet, and then turn the printer on.



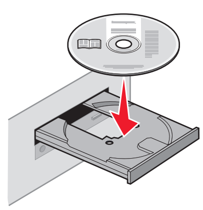




Make sure the printer and computer are fully on and ready.


Do not connect the USB cable until instructed to do so on the screen.

2 Insert the *Software and Documentation* CD.



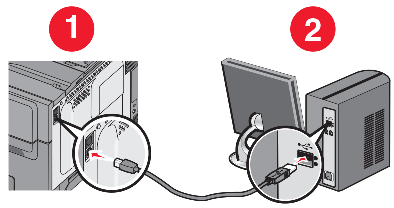
3 Click **Install Printer and Software**.

4 Click **Agree** to agree to the License Agreement.

5 Click **Suggested**, and then click **Next**.

6 Click **Wireless Network Attach**.

7 Temporarily connect a USB cable between the computer on the wireless network and the printer.



Note: After the printer is configured, the software will instruct you to disconnect the temporary USB cable so you can print wirelessly.

8 Follow the instructions on the computer screen to complete the software installation.

Note: `Basic` is the recommended path to choose. Choose `Advanced` only if you want to customize your installation.

9 To allow other computers on the wireless network to use the wireless printer, follow steps 2 through 6 and step 8 for each computer.

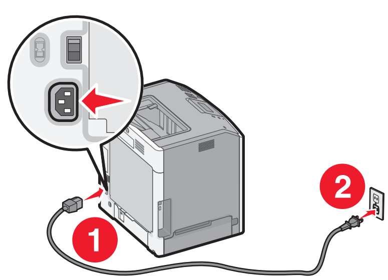
Installing the printer on a wireless network (Macintosh)

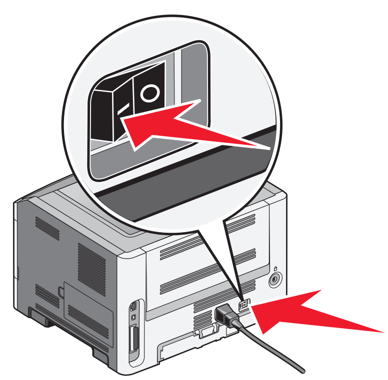
Prepare to configure the printer

1 Locate the printer MAC address on the sheet that shipped with the printer. Write the last six digits of the MAC address in the space provided below:

MAC address: ___ ___ ___ ___ ___ ___

2 Connect the power cable to the printer and then to a properly grounded electrical outlet, and then turn the power on.





Enter the printer information

1 Access the AirPort options.

In Mac OS X version 10.5 or later

a From the Apple menu, choose **System Preferences**.

b Click **Network**.

c Click **AirPort**.

In Mac OS X version 10.4 and earlier

a From the Finder desktop, choose **Go** > **Applications**.

b From the Applications folder, double-click **Internet Connect**.

c From the toolbar, click **AirPort**.

2 From the Network pop-up menu, select **print server xxxxxx**, where the x's are the last six digits of the MAC address located on the MAC address sheet.

3 Open the Safari browser.

4 From the Bookmarks drop-down menu, select **Show**.

5 Under Collections, select **Bonjour** or **Rendezvous**, and then double-click the printer name.

Note: The application is referred to as *Rendezvous* in Mac OS X version 10.3, but is now called *Bonjour* by Apple Computer.

6 From the main page of the Embedded Web Server, navigate to the page where the wireless settings information is stored.

Configure the printer for wireless access

1 Type the name of your network (SSID) in the appropriate field.

2 Select **Infrastructure** as your Network Mode if you are using a wireless router.

3 Select the type of security you use to protect your wireless network.

4 Enter the security information necessary for the printer to join your wireless network.

5 Click **Submit**.

6 Open the AirPort application on your computer:

In Mac OS X version 10.5 or later

a From the Apple menu, choose **System Preferences**.

b Click **Network**.

c Click **AirPort**.

In Mac OS X version 10.4 and earlier

a From the Finder desktop, choose **Go** > **Applications**.

b From the Applications folder, double-click **Internet Connect**.

c From the toolbar, click **AirPort**.

7 From the Network pop-up menu, select your wireless network.

Configure your computer to use the printer wirelessly

To print to a network printer, each Macintosh user must install a custom *PostScript Printer Description* (PPD) file and create a printer in the Print Center or Printer Setup Utility.

1 Install a PPD file on the computer:

a Insert the *Software and Documentation* CD in the CD or DVD drive.

b Double-click the installer package for the printer.

c From the Welcome screen, click **Continue**.

- **d** Click **Continue** again after viewing the Readme file.
- **e** Click **Continue** after viewing the license agreement, and then click **Agree** to accept the terms of the agreement.
- **f** Select a Destination, and then click **Continue**.
- **g** From the Easy Install screen, click **Install**.
- **h** Type the user password, and then click **OK**.
  All necessary software is installed on the computer.
- **i** Click **Close** when installation is complete.

2 Add the printer:

- **a** For IP printing:

  In Mac OS X version 10.5 or later

  1. From the Apple menu, choose **System Preferences**.
  2. Click **Print & Fax**.
  3. Click **+**.
  4. Select the printer from the list.
  5. Click **Add**.

  In Mac OS X version 10.4 and earlier

  1. From the Finder desktop, choose **Go** > **Applications**.
  2. Double-click the **Utilities** folder.
  3. Locate and double-click **Printer Setup Utility** or **Print Center**.
  4. From the Printer List, choose **Add**.
  5. Select the printer from the list.
  6. Click **Add**.

- **b** For AppleTalk printing:

  In Mac OS X version 10.5

  1. From the Apple menu, choose **System Preferences**.
  2. Click **Print & Fax**.
  3. Click **+**.
  4. Click **AppleTalk**.
  5. Select the printer from the list.
  6. Click **Add**.

  In Mac OS X version 10.4 and earlier

  1. From the Finder desktop, choose **Go** > **Applications**.
  2. Double-click the **Utilities** folder.
  3. Locate and double-click **Print Center** or **Printer Setup Utility**.
  4. From the Printer List, choose **Add**.
  5. Choose the **Default Browser** tab.
  6. Click **More Printers**.
  7. From the first pop-up menu, choose **AppleTalk**.
  8. From the second pop-up menu, select **Local AppleTalk zone**.

9 Select the printer from the list.
10 Click **Add**.

Installing the printer on a wired network

These instructions apply to Ethernet and fiber optic network connections.

Before you install the printer on a wired network, make sure that:

- You have completed the initial setup of the printer.
- The printer is connected to your network with the appropriate type of cable.

For Windows users

1 Insert the *Software and Documentation* CD.

Wait for the Welcome screen to appear.

If the CD does not launch after a minute, then do the following:

a Click , or click **Start** and then click **Run**.

b In the Start Search or Run box, type `D:\setup.exe`, where `D` is the letter of your CD or DVD drive.

2 Click **Install Printer and Software**.

3 Click **Agree** to agree to the License Agreement.

4 Select **Suggested**, and then click **Next**.

Note: To configure the printer using a static IP address, using IPv6, or to configure printers using scripts, select **Custom** and follow the instructions on the computer screen.

5 Select **Wired Network Attach**, and then click **Next**.

6 Select the printer manufacturer from the list.

7 Select the printer model from the list, and then click **Next**.

8 Select the printer from the list of printers discovered on the network, and then click **Finish**.

Note: If your configured printer does not appear in the list of discovered printers, click **Add Port** and follow the instructions on the computer screen.

9 Follow the instructions on the computer screen to complete the installation.

For Macintosh users

1 Allow the network DHCP server to assign an IP address to the printer.

2 Print the network setup page from the printer. For information on printing a network setup page, see “Printing a network setup page” on page 29.

3 Locate the printer IP address in the TCP/IP section of the network setup page. You will need the IP address if you are configuring access for computers on a different subnet than the printer.

4 Install the drivers and add the printer.

a Install a PPD file on the computer:

1 Insert the *Software and Documentation* CD in the CD or DVD drive.
2 Double-click the installer package for the printer.

3. From the Welcome screen, click **Continue**.
4. Click **Continue** again after viewing the Readme file.
5. Click **Continue** after viewing the license agreement, and then click **Agree** to accept the terms of the agreement.
6. Select a Destination, and then click **Continue**.
7. From the Easy Install screen, click **Install**.
8. Type the user password, and then click **OK**.
   All the necessary software is installed on the computer.
9. Click **Restart** when installation is complete.

b Add the printer:

- For IP printing:

In Mac OS X version 10.5 or later

1. From the Apple menu, choose **System Preferences**.
2. Click **Print & Fax**.
3. Click **+**.
4. Click **IP**.
5. Type the IP address of your printer in the Address field.
6. Click **Add**.

In Mac OS X version 10.4 and earlier

1. From the Finder desktop, choose **Go** > **Applications**.
2. Double-click **Utilities**.
3. Double-click **Printer Setup Utility** or **Print Center**.
4. From the Printer List, click **Add**.
5. Click **IP**.
6. Type the IP address of your printer in the Address field.
7. Click **Add**.

- For AppleTalk printing:

In Mac OS X version 10.5

1. From the Apple menu, choose **System Preferences**.
2. Click **Print & Fax**.
3. Click **+**.
4. Click **AppleTalk**.
5. Select the printer from the list.
6. Click **Add**.

In Mac OS X version 10.4 and earlier

1. From the Finder desktop, choose **Go** > **Applications**.
2. Double-click **Utilities**.
3. Double-click **Printer Setup Utility** or **Print Center**.
4. From the Printer List, click **Add**.
5. Choose the **Default Browser** tab.
6. Click **More Printers**.

7. From the first pop-up menu, choose **AppleTalk**.
8. From the second pop-up menu, select **Local AppleTalk zone**.
9. Select the printer from the list.
10. Click **Add**.

Note: If the printer doesn't show up in the list, you may need to add it using the IP address. Contact your system support person for assistance.

Minimizing your printer's environmental impact

Lexmark is committed to environmental sustainability and is continually improving its printers to reduce their impact on the environment. We design with the environment in mind, engineer our packaging to reduce materials, and provide collection and recycling programs. For more information, see:

- The Notices chapter
- The Environmental Sustainability section of the Lexmark Web site at **www.lexmark.com/environment**
- The Lexmark recycling program at **www.lexmark.com/recycle**

By selecting certain printer settings or tasks, you may be able to reduce your printer's impact even further. This chapter outlines the settings and tasks that may yield a greater environmental benefit.

Saving paper and toner

Studies show that as much as 80% of the carbon footprint of a printer is related to paper usage. You can significantly reduce your carbon footprint by using recycled paper and the following printing suggestions, such as printing on both sides of the paper and printing multiple pages on one side of a single sheet of paper.

For information on how you can quickly save paper and energy using one printer setting, see "Using Eco-Mode".

Using recycled paper

As an environmentally conscious company, Lexmark supports the use of recycled office paper produced specifically for use in laser printers. For more information on recycled papers that work well with your printer, see “Using recycled paper and other office papers” on page 59.

Conserving supplies

There are a number of ways you can reduce the amount of paper and toner you use when printing. You can:

Use both sides of the paper

If your printer model supports duplex printing, then you can control whether print appears on one or two sides of the paper by selecting **2-sided printing** from the Print dialog or the Lexmark Toolbar.

Place multiple pages on one sheet of paper

You can print up to 16 consecutive pages of a multiple-page document onto one side of a single sheet of paper by selecting a setting from the Multipage printing (N-Up) section of the Print dialog screen.

Check your first draft for accuracy

Before printing or making multiple copies of a document:

- Use the preview feature, which you can select from the Print dialog or the Lexmark Toolbar, to see what the document will look like before you print it.
- Print one copy of the document to check its content and format for accuracy.

Avoid paper jams

Carefully select and load paper to avoid paper jams. For more information, see “Avoiding jams” on page 123.

Saving energy

Using Eco‑Mode

Use Eco‑Mode to quickly select one or more ways to reduce your printer's environmental impact.

Note: See the table for the multiple settings that change when you select an Eco‑Mode setting.

Choose	To
Energy	Reduce energy use, especially when the printer is idle. • Printer engine motors do not start until a job is ready to print. You may notice a short delay before the first page is printed. • The printer enters Power Saver mode after one minute of inactivity. • When the printer enters Power Saver mode, the printer control panel display light is turned off.
Paper	• Enable the automatic duplex feature (on printer models that support duplex). • Turn off print log features.
Energy/Paper	Use all the settings associated with Energy mode and Paper mode.
Off	Use factory default settings for all settings associated with Eco‑Mode. This setting supports the performance specifications for your printer.

1. Make sure that the printer is on and **Ready** appears.
2. From the printer control panel, press ⊶.
3. Press the up or down arrow button until √**Settings** appears, and then press ✓.
4. Press the up or down arrow button until √**General Settings** appears, and then press ✓.
5. Press the up or down arrow button until √**Eco‑Mode** appears, and then press ✓.
6. Press the up or down arrow button to scroll through the list of possible settings. Press ✓ at the correct setting.
   Submitting Selection appears.

Reducing printer noise

Use Quiet Mode to reduce printer noise.

Note: See the table for the multiple settings that change when you select a Quiet Mode setting.

Choose	To
On (Text/Graphics) **Note:** This setting is best suited for printing text and line graphics.	Reduce printer noise. • Print jobs are processed at one-half the normal processing speed. • Printer engine motors do not start until a job is ready to print. There is a short delay before the first page is printed. • Fans run at reduced speed or are turned off. • If your printer has faxing capability, fax sounds are reduced or disabled, including those made by the fax speaker and ringer. The fax is placed in standby mode. • The alarm control and cartridge alarm sounds are turned off. • The printer ignores the Advance Start command.
Off (Image/Photo) **Note:** Selecting **Photo** from the driver may disable Quiet Mode and provide better print quality and full speed printing.	Use factory default settings. This setting supports the performance specifications for your printer.

1. Make sure that the printer is on and `Ready` appears.
2. From the printer control panel, press the menu button.
3. Press the up or down arrow button until √`Settings` appears, and then press the select button.
4. Press the up or down arrow button until √`General Settings` appears, and then press the select button.
5. Press the up or down arrow button until √**Quiet Mode** appears, and then press the select button.
6. Press the up or down arrow button to scroll through the list of possible settings. Press the select button at the correct setting.

   `Submitting Selection` appears.

Adjusting Power Saver

Available settings range from 1–240 minutes. The factory default setting is 30 minutes.

To increase or decrease the number of minutes before the printer enters Power Saver mode, do one of the following:

Using the Embedded Web Server

1. Type the printer IP address into the address field of your Web browser.

   Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
2. Click **Settings**, and then click **General Settings**.
3. Click **Timeouts**.
4. In the Power Saver box, increase or decrease the number of minutes you want the printer to wait before it enters Power Saver mode.
5. Click **Submit**.

Using the printer control panel

1 Make sure the printer is on and **Ready** appears.

2 Press ⊶.

3 Press the up or down arrow button until √**Settings** appears, and then press ✓.

4 Press the up or down arrow button until √**General Settings** appears, and then press ✓.

5 Press the up or down arrow button until √**Timeouts** appears, and then press ✓.

6 Press the up or down arrow button until √**Power Saver** appears, and then press ✓.

7 Press the up or down arrow button to increase or decrease the number of minutes before the printer enters Power Saver mode, and then press ✓.

Recycling

Lexmark provides collection programs and environmentally progressive approaches to recycling. For more information, see:

- The Notices chapter
- The Environmental Sustainability section of the Lexmark Web site at **www.lexmark.com/environment**
- The Lexmark recycling program at **www.lexmark.com/recycle**

Recycling Lexmark products

To return Lexmark products to Lexmark for recycling:

1 Visit our Web site at **www.lexmark.com/recycle**.

2 Find the product type you want to recycle, and then select your country from the list.

3 Follow the instructions on the computer screen.

Recycling Lexmark packaging

Lexmark continually strives to minimize packaging. Less packaging helps to ensure that Lexmark printers are transported in the most efficient and environmentally sensitive manner and that there is less packaging to dispose of. These efficiencies result in fewer greenhouse emissions, energy savings, and natural resource savings.

Lexmark cartons are 100% recyclable where corrugated recycling facilities exist. Facilities may not exist in your area.

The foam used in Lexmark packaging is recyclable where foam recycling facilities exist. Facilities may not exist in your area.

When you return a cartridge to Lexmark, you can reuse the box that the cartridge came in. Lexmark will recycle the box.

Returning Lexmark cartridges for reuse or recycling

The Lexmark Cartridge Collection Program diverts millions of Lexmark cartridges from landfills annually by making it both easy and free for Lexmark customers to return used cartridges to Lexmark for reuse or recycling. One hundred percent of the empty cartridges returned to Lexmark are either reused or demanufactured for recycling. Boxes used to return the cartridges are also recycled.

To return Lexmark cartridges for reuse or recycling, follow the instructions that came with your printer or cartridge and use the pre-paid shipping label. You can also:

1. Visit our Web site at **www.lexmark.com/recycle**.
2. From the Toner Cartridges section, select your country from the list.
3. Follow the instructions on the computer screen.

Loading paper and specialty media

This section explains how to load the 250- and 550-sheet trays and the multipurpose feeder. It also includes information about paper orientation, setting the Paper Size and Paper Type, and linking and unlinking trays.

Setting the paper size and type

1. Make sure that the printer is on and **`Ready`** appears.
2. From the printer control panel, press [menu button].
3. Press the up or down arrow button until √**`Paper Menu`** appears, and then press (√).
4. Press the up or down arrow button until √**`Paper Size/Type`** appears, and then press (√).
5. Press the up or down arrow button until the correct tray or feeder appears, and then press (√).
6. Press the left or right arrow button until the correct size appears, and then press (√).

   `Paper Type` appears.
7. Press the left or right arrow button until the correct type appears, and then press (√).

   `Submitting selection` appears. The printer returns to the **`Paper Size/Type`** menu.

Configuring Universal paper settings

The Universal Paper Size is a user-defined setting that lets you print on paper sizes that are not preset in the printer menus. Set the Paper Size for the specified tray to Universal when the size you want is not available from the Paper Size menu. Then, specify all of the following Universal size settings for your paper:

- Units of Measure (inches or millimeters)
- Portrait Height and Width
- Feed Direction

Note: The smallest supported Universal size is 76.2 x 127 mm (3 x 5 in.); the largest is 216 x 356 mm (8.5 x 14 in.).

Specify a unit of measure

1. Make sure the printer is on and **`Ready`** appears.
2. From the printer control panel, press [menu button].

   √**`Paper Menu`** appears.
3. Press (√).
4. Press the up or down arrow button until √**`Universal Setup`** appears, and then press (√).
5. Press the up or down arrow button until **`Units of Measure`** appears, and then press (√).
6. Press the up or down arrow button until √ appears next to the correct unit of measure, and then press (√).

   `Submitting selection` appears, followed by the **`Universal Setup`** menu.
7. Press and release [back button] until **`Ready`** appears.

Specify the paper height and width

Defining a specific height and width measurement for the Universal paper size (in the portrait orientation) allows the printer to support the size, including support for standard features such as duplex printing and printing multiple pages on one sheet.

Note: Select `Portrait Height` to adjust the paper height setting or `Paper Width` to adjust the paper width setting, or adjust both. Instructions to adjust both follow.

1. From the Universal Setup menu, press the up or down arrow button until √`Portrait Width` appears, and then press .
2. Press the left or right arrow button until the setting you want appears, and then press .

   `Submitting selection` appears, followed by the `Universal Setup` menu.
3. From the Universal Setup menu, press the up or down arrow button until √`Portrait Height` appears, and then press .
4. Press the left or right arrow button until the setting you want appears, and then press .

   `Submitting selection` appears, followed by the `Universal Setup` menu.
5. Press and release until `Ready` appears.

Specify a feed direction

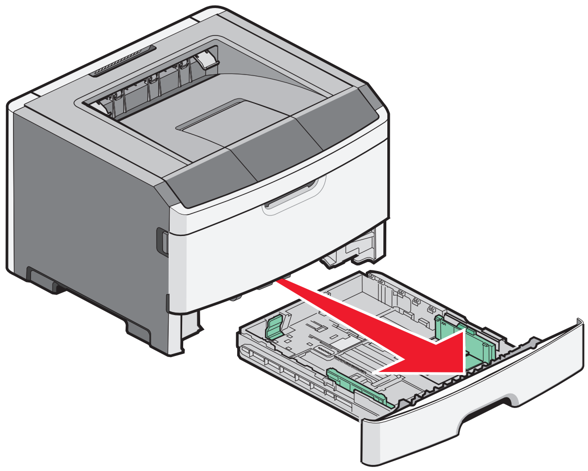
Short Edge is the factory default setting for feed direction for Universal paper settings. The Feed Direction menu appears only when both the height and width specified for the Universal paper size are set to 8.5 in (216 mm) or less. If necessary, specify whether the short or long edge of the paper enters the printer first.

1. From the Universal Setup menu, press the up or down arrow button until `Feed Direction` appears, and then press .
2. Press the up or down arrow button until √`Short Edge` or √`Long Edge` appears, and then press .
3. Press and release until `Ready` appears.

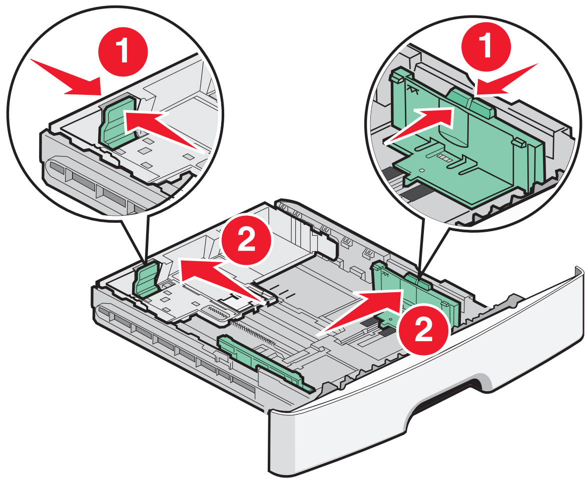
Loading trays

1. Pull the tray completely out.

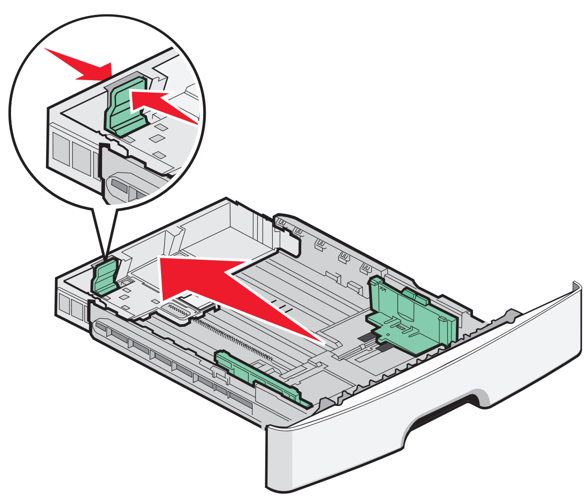
   Note: Do not remove trays while a job prints or while `Busy` appears on the display. Doing so may cause a jam.



2 Squeeze and slide the guides to the correct position for the paper size you are loading.



For long paper like A4 or legal, squeeze and slide the length guide backwards to accommodate the length of paper you are loading.



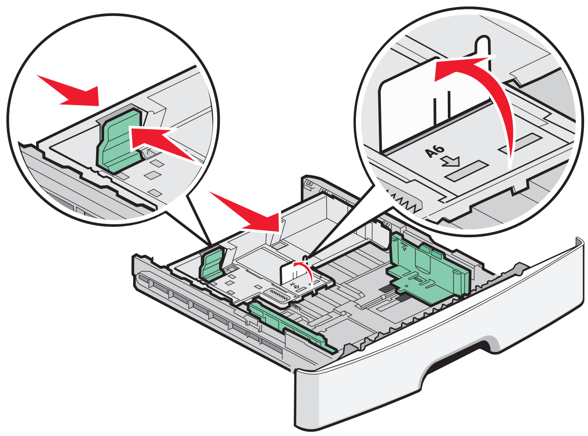
If you are loading A6-size paper:

a Squeeze and slide the length guide toward the center of the tray to the A5 size position.

b Raise the A6 backstop.

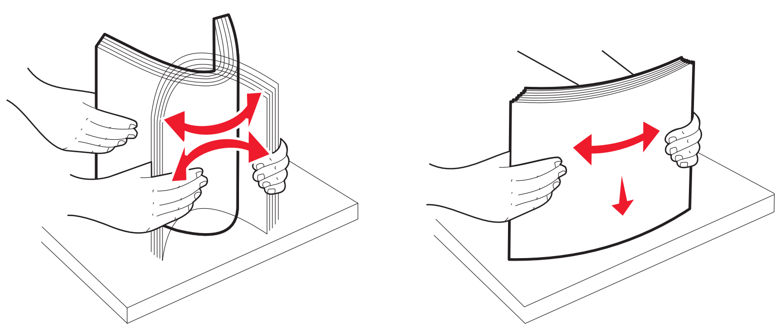
Notes:

- Tray 1 accommodates only 150 sheets of A6-size paper. Notice the maximum fill line on the A6 backstop which indicates the maximum height for loading A6-size paper. Do not try to overload the tray.
- A6-size paper cannot be loaded in Tray 2.



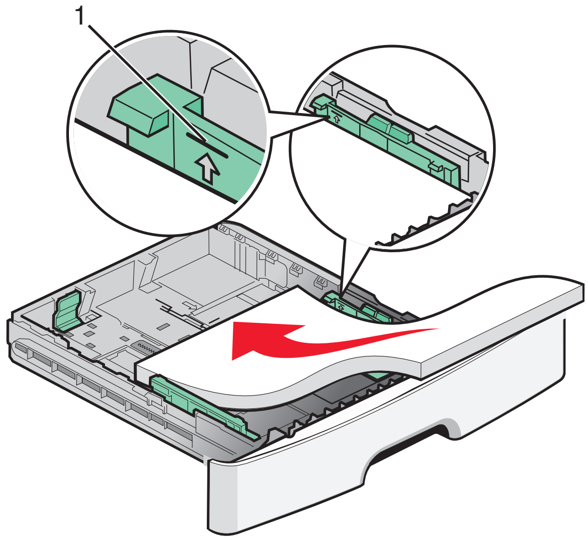
Note: Use the size indicators on the bottom of the tray to help position the guide.

3 Flex a stack of paper back and forth to loosen the sheets, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.



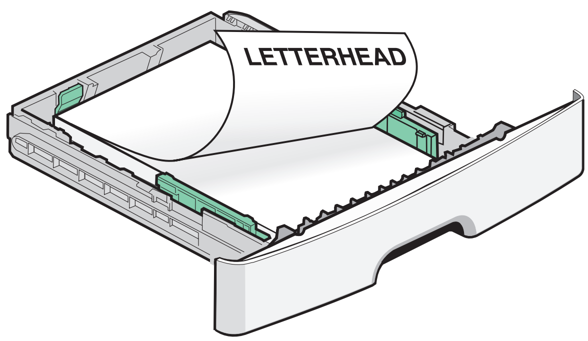
4 Load the paper stack toward the back of the tray as shown with the recommended print side facedown.

Note: The maximum fill line on the width guide indicates the maximum height for loading paper. Do not load A6-size paper to the maximum fill line; the tray holds only 150 sheets of A6-size paper.

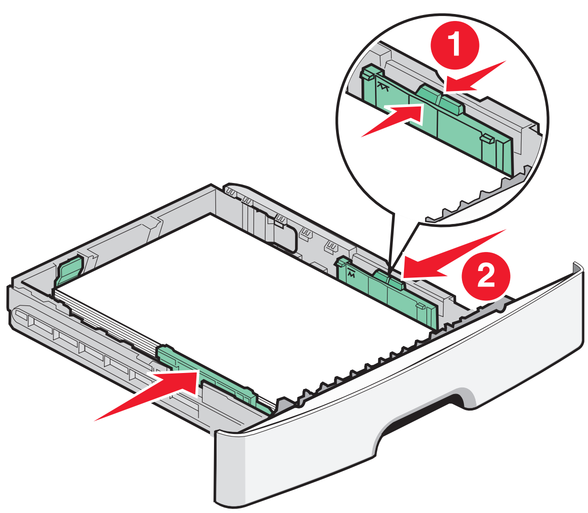


1	Maximum fill line

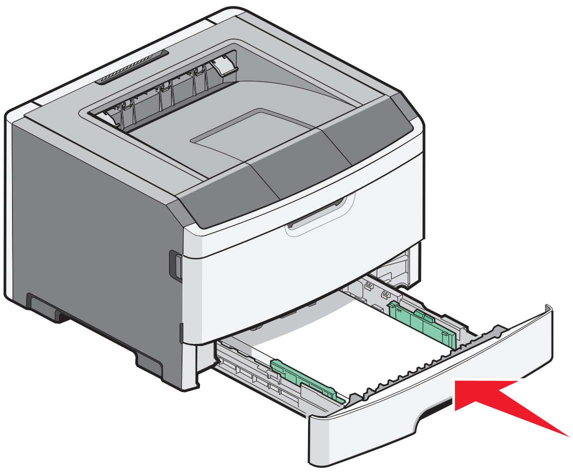
Load letterhead with the top edge of the sheet toward the front of the tray and the design facedown.



5 Squeeze and slide the guides to lightly touch the side of the stack.



6 Insert the tray.



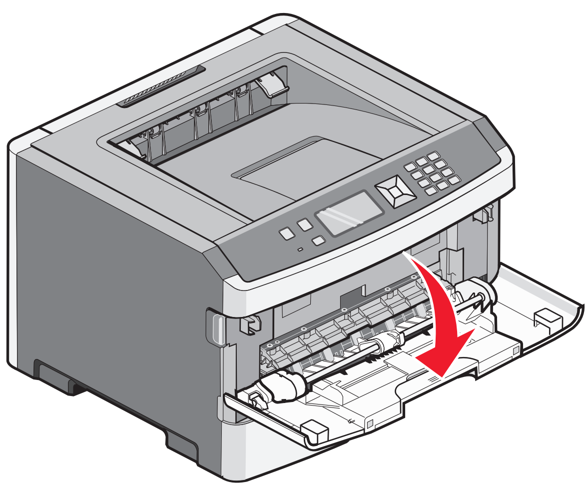
7 If the paper type you loaded differs from the type that was previously loaded in the tray, then change the Paper Size/Type setting from the printer control panel Paper menu.

Using the multipurpose feeder

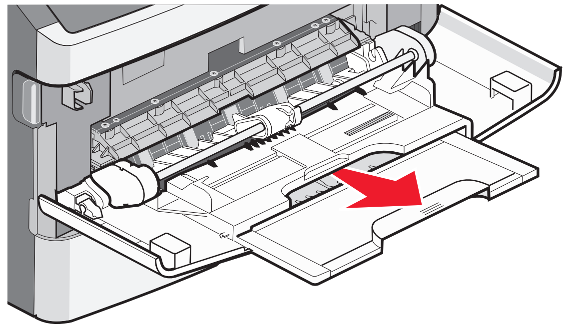
You may want to use the multipurpose feeder when you print on different sizes and types of papers or specialty media, such as card stock, transparencies, paper labels, and envelopes. You may also want to use the multipurpose feeder for single-page print jobs on letterhead or on other specialty media you do not keep in a tray.

Opening the multipurpose feeder

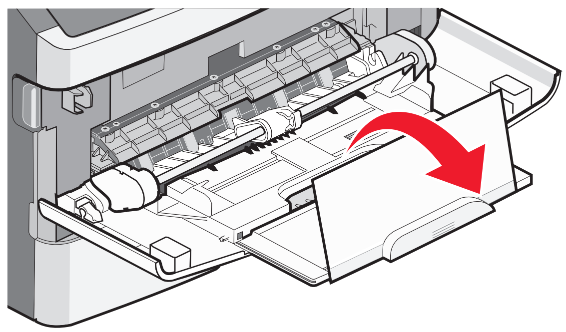
1 Grasp the handle, and pull the multipurpose feeder door down.



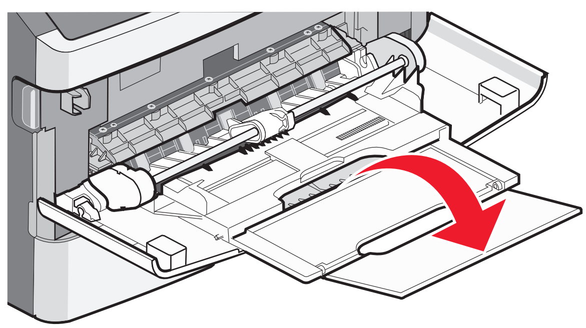
2 Grasp the raised handle, and pull the extension forward.



3 Grasp the handle, and pull the extension so it flips forward.

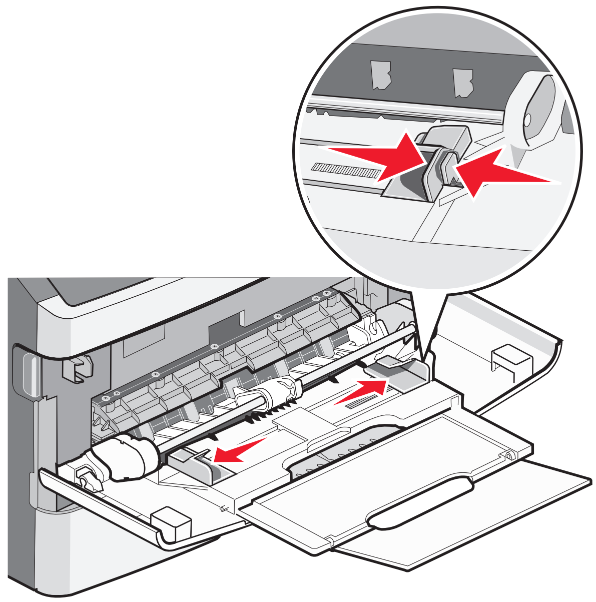


4 Guide the extension down gently so the multipurpose feeder is extended fully and open.



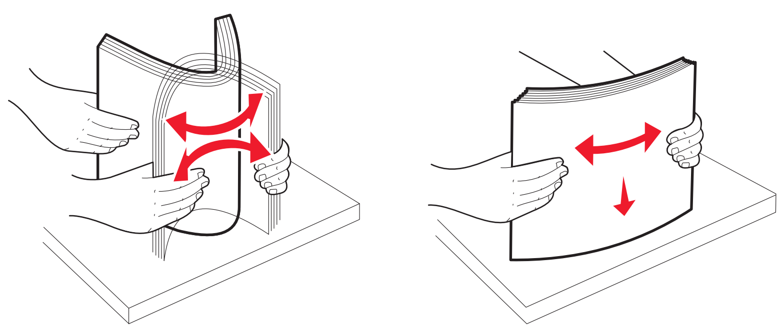
Loading the multipurpose feeder

1 Squeeze the tab located on the right width guide, and move the guides out fully.



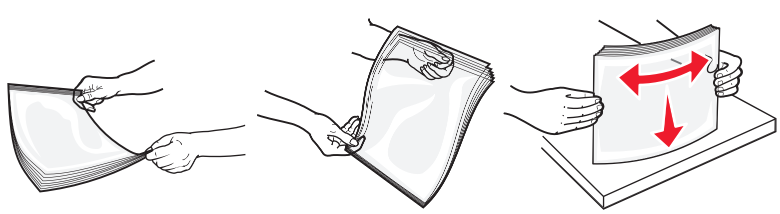
2 Prepare the paper or specialty media for loading.

- Flex sheets of paper or paper labels back and forth to loosen them, and then fan them. Do not fold or crease the paper or labels. Straighten the edges on a level surface.

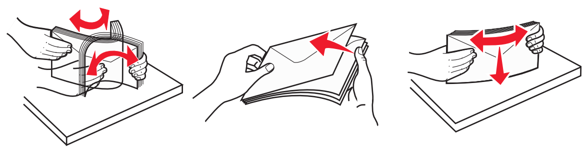


- Hold transparencies by the edges, and then fan them. Straighten the edges on a level surface.

  Note: Avoid touching the print side of the transparencies. Be careful not to scratch them.



- Flex a stack of envelopes back and forth to loosen them, and then fan them. Straighten the edges on a level surface.

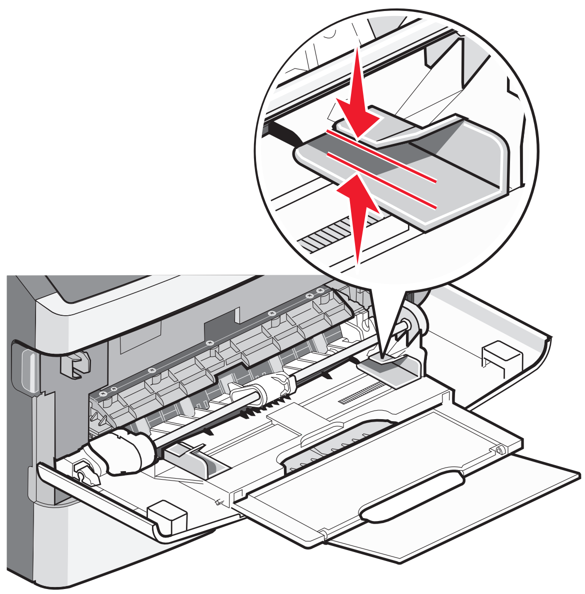


Note: Fanning prevents the edges of envelopes from sticking together. It also helps them feed properly to avoid jams. Do not fold or crease envelopes.

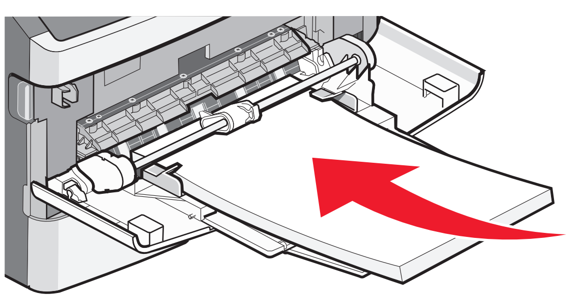
3 Load the paper or specialty media.

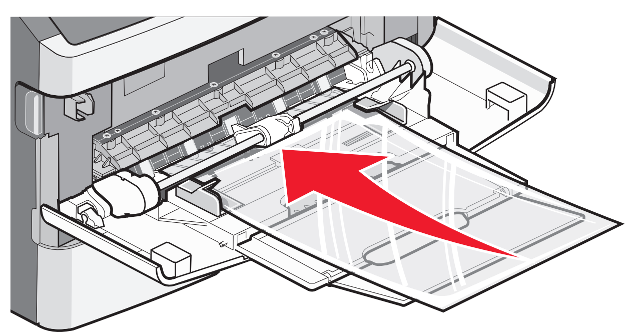
Notes:

- Do not force any paper into the multipurpose feeder. Overfilling may cause jams.
- Do not exceed the maximum stack height by forcing paper or specialty media under the stack height limiters which are located on the guides.

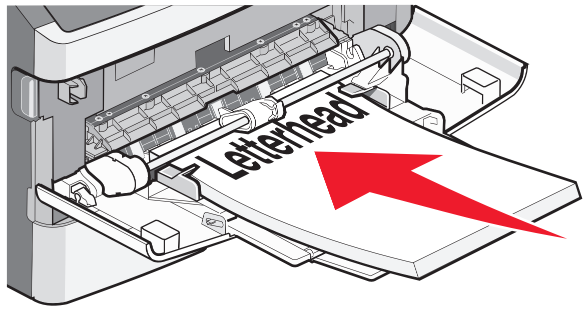


- Load paper, transparencies, and card stock with the recommended print side faceup and the top edge entering the printer first. For more information on loading transparencies, see the packaging the transparencies came in.

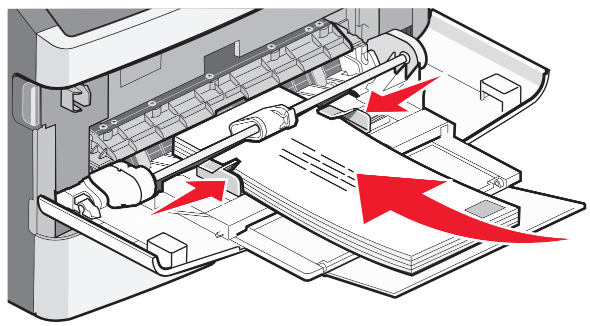




- Load letterhead with the logo faceup and the top edge entering the printer first.

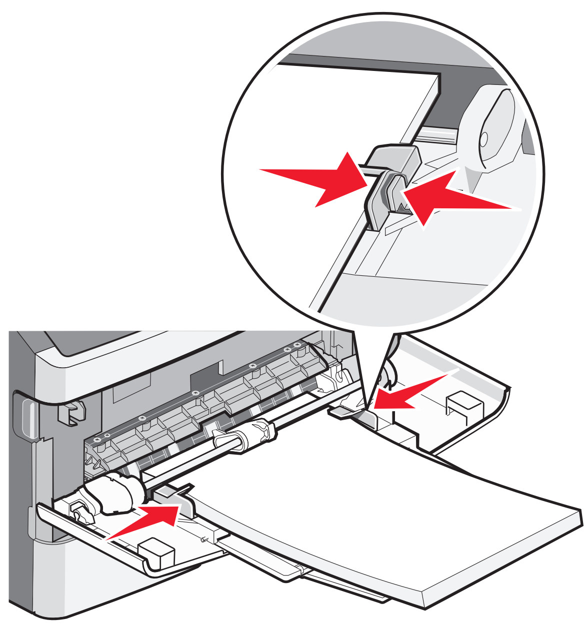


- Load envelopes with the flap side down and the stamp location in the position shown. The stamp and address are shown to illustrate the proper orientation for loading envelopes.

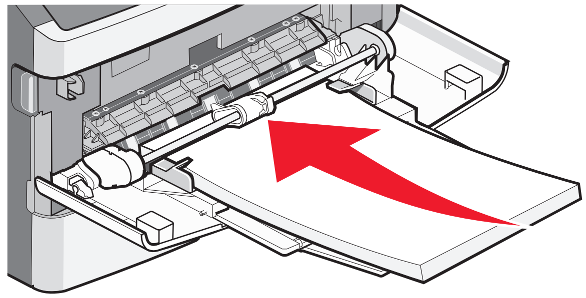


Warning—Potential Damage: Never use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives. These envelopes may severely damage the printer.

4 Squeeze the tab located on the right width guide to adjust the guides to lightly touch the sides of the stack.



5 Slide the paper gently into the multipurpose feeder until it comes to a stop. Paper should lie flat in the multipurpose feeder. Make sure the paper fits loosely in the multipurpose feeder and is not bent or wrinkled.



6 From the printer control panel, set the Paper Size and Paper Type.

Linking and unlinking trays

In addition to linking trays to each other, you can also link the multipurpose feeder to the trays.

Linking trays

Tray linking is useful for large print jobs or multiple copies. When one linked tray is empty, paper feeds from the next linked tray. When the Size and Type settings are the same for any trays, the trays are automatically linked. The Size and Type settings for all trays must be set from the Paper menu.

Unlinking trays

Unlinked trays have settings that are *not* the same as the settings of any other tray. To unlink a tray using the Paper menu, change the Paper Type and Paper Size settings so that they do not match the settings of any other tray.

1 From the Paper menu, make sure the Type setting (for example, Plain Paper, letterhead, Custom Type <x>) for the tray you want to unlink does not match the Type setting of any other tray.

   If the name that best describes your paper is used by linked trays, assign a different Paper Type name to the tray, such as Custom Type <x>, or assign your own custom name.

2 Make sure the Size setting (for example, letter, A4, statement) for the tray you want to unlink does not match the Size setting of any other tray.

   Note: Paper Size settings are not automatic; they must be set manually from the Paper menu.

Warning—Potential Damage: Do not assign a Paper Type name that does not accurately describe the type of paper loaded in the tray. The temperature of the fuser varies according to the specified Paper Type. Paper may not be properly processed if an inaccurate Paper Type is selected.

Creating a custom name for a paper type

If the printer is on a network, you can use the Embedded Web Server to define a name other than Custom Type <x> for each of the custom paper types that are loaded.

1. Type the printer IP address into the address field of your Web browser.

   Note: If you do not know the IP address of the printer, print a network setup page and locate the address in the TCP/IP section.

2. Click **Settings**.
3. Click **Paper Menu**.
4. Click **Custom Name**.
5. Type a name for the paper type in a Custom Name <x> box.

   Note: This custom name will replace a custom type <x> name under the Custom Types and Paper Size and Type menus.

6. Click **Submit**.
7. Click **Custom Types**.

   `Custom Types` appears, followed by your custom name.

8. Select a Paper Type setting from the pick list next to your custom name.
9. Click **Submit**.

Assigning a customer paper type name to a tray

Assign a Custom Type <x> name to a tray to link or unlink it. Associate the same Custom Type <x> name to each tray that you want to link. Only trays with the same custom names assigned will link.

1. Make sure the printer is on and `Ready` appears.
2. From the printer control panel, press .
3. Press the up or down arrow button until √`Paper Menu` appears, and then press .
4. Press the up or down arrow button until √`Paper Size/Type` appears, and then press .
5. Press the up or down arrow button until √ appears next to the name of the tray, and then press .

   The Paper Size menu appears.

6. Press again.

   The Paper Type menu appears.

7. Press the up or down arrow button until √`Custom Type <x>` or another custom name appears, and then press .

   `Submitting selection` appears, followed by `Paper Menu`.

8. Verify that the correct Paper Type is associated with the custom name.

   Note: Plain Paper is the factory default Paper Type associated with all Custom Type <x> names and user-defined custom names.

a From the Paper menu, press the down arrow button until √`Custom Types` appears, and then press ✓.

b Press the down arrow button until √ appears next to the custom paper type name you selected in step 7 on page 55, and then press ✓.

c Press the down arrow button until √ appears next to the Paper Type setting you want, and then press ✓.

Paper and specialty media guidelines

Paper and specialty media are paper, card stock, envelopes, paper labels, and transparencies. A number of items must be considered concerning the selection of paper and specialty media before printing. This chapter provides information on making selections and caring for papers and specialty media.

It is recommended that you try a limited sample of any paper or specialty media you are considering using with the printer before purchasing large quantities.

For more information about types of paper and specialty media your printer supports, see the *Card Stock & Label Guide* available on the Lexmark Web site at **www.lexmark.com**.

Paper guidelines

Selecting the correct paper or specialty media reduces printing problems. For the best print quality, try a sample of the paper or specialty media before buying large quantities.

Paper characteristics

The following paper characteristics affect print quality and reliability. Consider these characteristics when evaluating new paper stock.

Weight

The printer trays can automatically feed paper weights up to 90 g/m^2 (24 lb bond) grain long paper. The multipurpose feeder can automatically feed paper weights up to 163 g/m^2 (43 lb bond) grain long. Paper lighter than 60 g/m^2 (16 lb) might not be stiff enough to feed properly, causing jams. For best performance, use 75 g/m^2 (20 lb bond) grain long paper. For paper smaller than 182 x 257 mm (7.2 x 10.1 in.), we recommend 90 g/m^2 (24 lb) or heavier paper.

Note: Duplex printing is supported only for 60–90 g/m^2 (16–24 lb bond) paper.

Curl

Curl is the tendency for paper to curl at its edges. Excessive curl can cause paper feeding problems. Curl can occur after the paper passes through the printer, where it is exposed to high temperatures. Storing paper unwrapped in hot, humid, cold, or dry conditions, even in the trays, can contribute to paper curling prior to printing and can cause feeding problems.

Smoothness

Paper smoothness directly affects print quality. If paper is too rough, toner cannot fuse to it properly. If paper is too smooth, it can cause paper feeding or print quality issues. Always use paper between 100–300 Sheffield points; smoothness between 150–250 Sheffield points produces the best print quality.

Moisture content

The amount of moisture in paper affects both print quality and the ability of the printer to feed the paper correctly. Leave paper in its original wrapper until it is time to use it. This limits the exposure of paper to moisture changes that can degrade its performance.

Condition paper before printing by storing it in its original wrapper in the same environment as the printer for 24 to 48 hours before printing. Extend the time several days if the storage or transportation environment is very different from the printer environment. Thick paper may also require a longer conditioning period.

Grain direction

Grain refers to the alignment of the paper fibers in a sheet of paper. Grain is either *grain long*, running the length of the paper, or *grain short*, running the width of the paper.

For 60–90 g/m^2 (16–24 lb bond) paper, grain long paper is recommended.

Fiber content

Most high‑quality xerographic paper is made from 100% chemically treated pulped wood. This content provides the paper with a high degree of stability resulting in fewer paper feeding problems and better print quality. Paper containing fibers such as cotton can negatively affect paper handling.

Unacceptable paper

The following paper types are not recommended for use with the printer:

- Chemically treated papers used to make copies without carbon paper, also known as carbonless papers, carbonless copy paper (CCP), or no carbon required (NCR) paper
- Preprinted papers with chemicals that may contaminate the printer
- Preprinted papers that can be affected by the temperature in the printer fuser
- Preprinted papers that require a registration (the precise print location on the page) greater than ±2.3 mm (±0.9 in.), such as optical character recognition (OCR) forms

  In some cases, registration can be adjusted with a software application to successfully print on these forms.
- Coated papers (erasable bond), synthetic papers, thermal papers
- Rough‑edged, rough or heavily textured surface papers, or curled papers
- Recycled papers that fail EN12281:2002 (European)
- Paper weighing less than 60 g/m^2 (16 lb)
- Multiple‑part forms or documents

Selecting paper

Using appropriate paper prevents jams and helps ensure trouble‑free printing.

To help avoid jams and poor print quality:

- *Always* use new, undamaged paper.
- Before loading paper, know the recommended print side. This information is usually indicated on the package.
- *Do not* use paper, paper labels, or card stock that has been cut or trimmed by hand.
- *Do not* mix sizes, types, or weights in the same source; mixing results in jams.
- *Do not* use coated papers unless they are specifically designed for electrophotographic printing.

Selecting preprinted forms and letterhead

Use these guidelines when selecting preprinted forms and letterhead:

- Use grain long for 60–90 g/m^2 (16–24 lb) paper.
- Use only forms and letterhead printed using an offset lithographic or engraved printing process.
- Avoid papers with rough or heavily textured surfaces.

Use papers printed with heat-resistant inks designed for use in xerographic copiers. The ink must be able to withstand temperatures up to 230°C (446°F) without melting or releasing hazardous emissions. Use inks that are not affected by the resin in toner. Inks that are oxidation-set or oil-based generally meet these requirements; latex inks might not. When in doubt, contact the paper supplier.

Preprinted papers such as letterhead must be able to withstand temperatures up to 230°C (446°F) without melting or releasing hazardous emissions.

Using recycled paper and other office papers

As an environmentally conscious company, Lexmark supports the use of recycled office paper produced specifically for use in laser (electrophotographic) printers. In 1998, Lexmark presented to the US government a study demonstrating that recycled paper produced by major mills in the US fed as well as non-recycled paper. However, no blanket statement can be made that *all* recycled paper will feed well.

Lexmark consistently tests its printers with recycled paper (20–100% post-consumer waste) and a variety of test paper from around the world, using chamber tests for different temperature and humidity conditions. Lexmark has found no reason to discourage the use of today's recycled office papers, but generally the following property guidelines apply to recycled paper.

- Low moisture content (4–5%)
- Suitable smoothness (100–200 Sheffield units, or 140–350 Bendtsen units, European)

  Note: Some much smoother papers (such as premium 24 lb laser papers, 50–90 Sheffield units) and much rougher papers (such as premium cotton papers, 200–300 Sheffield units) have been engineered to work very well in laser printers, despite surface texture. Before using these types of paper, consult your paper supplier.

- Suitable sheet-to-sheet coefficient of friction (0.4–0.6)
- Sufficient bending resistance in the direction of feed

Recycled paper, paper of lower weight (<60 g/m^2 [16 lb bond]) and/or lower caliper (<3.8 mils [0.1 mm]), and paper that is cut grain-short for portrait (or short-edge) fed printers may have lower bending resistance than is required for reliable paper feeding. Before using these types of paper for laser (electrophotographic) printing, consult your paper supplier. Remember that these are general guidelines only and that paper meeting these guidelines may still cause paper feeding problems in any laser printer (for example, if the paper curls excessively under normal printing conditions).

Storing paper

Use these paper storage guidelines to help avoid jams and uneven print quality:

- For best results, store paper where the temperature is 21°C (70°F) and the relative humidity is 40%. Most label manufacturers recommend printing in a temperature range of 18 to 24°C (65 to 75°F) with relative humidity between 40 and 60%.
- Store paper in cartons when possible, on a pallet or shelf, rather than on the floor.

- Store individual packages on a flat surface.
- Do not store anything on top of individual paper packages.

Supported paper sizes, types, weights, and capacities

The following tables provide information on standard and optional paper sources, the types of paper they support, and capacities.

Note: For an unlisted paper size, select the closest *larger* listed size.

For information on card stock and labels, see the *Card Stock & Label Guide* available at the Lexmark Web site at http://support.lexmark.com.

Paper types and weights supported by the printer

The printer engine and the duplex path support 60–90 g/m^2 (16–24 lb) paper weights. The multipurpose feeder supports 60–163 g/m^2 (16–43 lb) paper weights.

Note: Optional trays are not available for some models.

Paper type	Standard 250‑sheet tray (Tray 1)	Standard or optional 250‑sheet tray (Tray 2)	Optional 550‑sheet tray (Tray 2)	Multipurpose feeder	Duplex path
Paper • Plain • Light • Heavy • Rough/Cotton • Recycled • Custom	✓	✓	✓	✓	✓
Bond	✓	✓	✓	✓	✓
Letterhead	✓	✓	✓	✓	✓
Preprinted	✓	✓	✓	✓	✓
Colored Paper	✓	✓	✓	✓	✓
Card stock	X	X	X	✓	X
Glossy paper	X	X	X	X	X
Paper labels[1]	✓	✓	✓	✓	X
Transparencies	✓	X	X	✓	X
Envelopes (smooth)[2]	X	X	X	✓	X

Paper type	Standard 250-sheet tray (Tray 1)	Standard or optional 250-sheet tray (Tray 2)	Optional 550-sheet tray (Tray 2)	Multipurpose feeder	Duplex path
[1] Single-sided paper labels are supported for occasional use. It is recommended to print 20 or fewer pages of paper labels a month. Vinyl, pharmacy, and dual-sided labels are not supported.					
[2] Use envelopes that lie flat when individually placed on a table facedown.					

Paper sizes supported by the printer

Note: Optional trays are not available for some models.

Paper size	Dimensions	Standard 250-sheet tray (Tray 1)	Standard or optional 250-sheet tray (Tray 2)	Optional 550-sheet tray (Tray 2)	Multipurpose feeder	Duplex path
A4	210 x 297 mm (8.3 x 11.7 in.)	✓	✓	✓	✓	✓
A5	148 x 210 mm (5.8 x 8.3 in.)	✓	✓	✓	✓	**X**
A6[1]	105 x 148 mm (4.1 x 5.8 in.)	✓	**X**	**X**	✓	**X**
Executive	184 x 267 mm (7.3 x 10.5 in.)	✓	✓	✓	✓	**X**
Folio	216 x 330 mm (8.5 x 13 in.)	✓	✓	✓	✓	✓
JIS B5	182 x 257 mm (7.2 x 10.1 in.)	✓	✓	✓	✓	**X**
Legal	216 x 356 mm (8.5 x 14 in.)	✓	✓	✓	✓	✓
Letter	216 x 279 mm (8.5 x 11 in.)	✓	✓	✓	✓	✓
Oficio (Mexico)[2]	216 x 340 mm (8.5 x 13.4 in.)	✓	✓	✓	✓	✓
Statement	140 x 216 mm (5.5 x 8.5 in.)	✓	✓	✓	✓	**X**
Universal[3]	76.2 x 127 mm (3 x 5 in.) up to 216 x 356 mm (8.5 x 14 in.)	✓	✓	✓	✓	✓
[1] A6 is supported only for grain long papers.						
[2] This size setting formats the page for 216 x 356 mm (8.5 x 14 in.) unless the size is specified by the software application.						
[3] If a paper size you want to use is not listed, configure a Universal paper size. For more information, see "Configuring Universal paper settings" on page 44.						

Paper size	Dimensions	Standard 250‑sheet tray (Tray 1)	Standard or optional 250‑sheet tray (Tray 2)	Optional 550‑sheet tray (Tray 2)	Multipurpose feeder	Duplex path
B5 Envelope	176 x 250 mm (6.9 x 9.8 in.)	X	X	X	√	X
C5 Envelope	162 x 229 mm (6.4 x 9 in.)	X	X	X	√	X
DL Envelope	110 x 220 mm (4.3 x 8.7 in.)	X	X	X	√	X
7 3/4 Envelope (Monarch)	98 x 191 mm (3.9 x 7.5 in.)	X	X	X	√	X
9 Envelope	98 x 225 mm (3.9 x 8.9 in.)	X	X	X	√	X
10 Envelope	105 x 241 mm (4.1 x 9.5 in.)	X	X	X	√	X
Other Envelope	216 x 356 mm (8.5 x 14 in.)	X	X	X	√	X

[1] A6 is supported only for grain long papers.

[2] This size setting formats the page for 216 x 356 mm (8.5 x 14 in.) unless the size is specified by the software application.

[3] If a paper size you want to use is not listed, configure a Universal paper size. For more information, see “Configuring Universal paper settings” on page 44.

Paper tray capacities

The capacities of the trays and the multipurpose feeder are based on 75 g/m^2 (20 lb) paper.

Printing

This chapter covers printing, printer reports, and job cancelation. Selection and handling of paper and specialty media can affect how reliably documents print. For more information, see “Avoiding jams” on page 123 and “Storing paper” on page 59.

Printing a document

Printing a document

1. Load paper into a tray or feeder.
2. From the printer control panel Paper menu, set the Paper Size/Type to match the loaded paper.
3. Send the print job:

   #### For Windows users

   a. With a document open, click **File** > **Print**.

   b. Click **Properties, Preferences, Options,** or **Setup**, and then adjust the settings as needed.

      Note: To print on a specific size or type of paper, adjust the paper size or type settings to match the loaded paper, or select the appropriate tray or feeder.

   c. Click **OK**, and then click **OK**.

   #### For Macintosh users

   a. Customize the settings as needed in the Page Setup dialog:
      1. With a document open, choose **File** > **Page Setup**.
      2. Choose a paper size or create a custom size to match the loaded paper.
      3. Click **OK**.

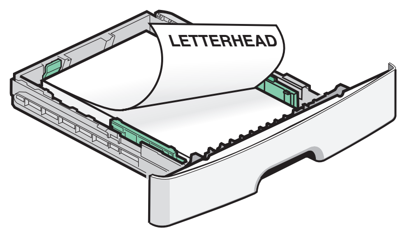
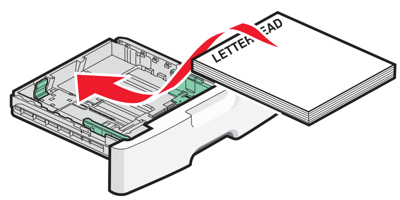
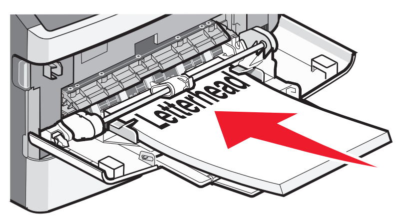
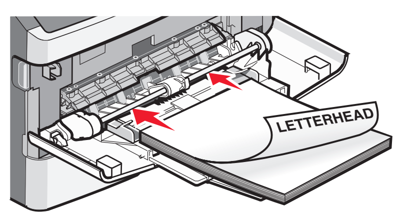
   b. Customize the settings as needed in the Print dialog:
      1. With a document open, choose **File** > **Print**.
         If necessary, click the disclosure triangle to see more options.
      2. From the Print dialog and pop-up menus, adjust the settings as needed.

         Note: To print on a specific paper type, adjust the paper type setting to match the loaded paper, or select the appropriate tray or feeder.
      3. Click **Print**.

Printing on specialty media

Tips on using letterhead

Page orientation is important when printing on letterhead. Use the following table to determine which direction to load the letterhead:

Source or process	Print side	Paper orientation
• Standard 250-sheet tray • Optional 250-sheet tray • Optional 550-sheet tray	Printed letterhead design is placed facedown.	The top edge of the sheet with the logo is placed at the front of the tray. 
Duplex (two-sided) printing from trays	Printed letterhead design is placed faceup.	The top edge of the sheet with the logo is placed at the front of the tray. 
Multipurpose feeder (simplex printing)	Preprinted letterhead design is placed faceup.	The top edge of the sheet with the logo should enter the multipurpose feeder first. 
Multipurpose feeder (duplex printing)	Preprinted letterhead design is placed facedown.	The top edge of the sheet with the logo should enter the multipurpose feeder last. 

Note: Check with the manufacturer or vendor to determine whether the chosen preprinted letterhead is acceptable for laser printers.

Tips on using transparencies

Print samples on the transparencies being considered for use before buying large quantities.

When printing on transparencies:

- Feed transparencies from the standard 250‑sheet tray or the multipurpose feeder.
- Use transparencies designed specifically for laser printers. Check with the manufacturer or vendor to ensure transparencies are able to withstand temperatures up to 175°C (350°F) without melting, discoloring, offsetting, or releasing hazardous emissions.

  Note: Transparencies can be printed at a temperature up to 180°C (356°F) if Transparency Weight is set to Heavy and Transparency Texture is set to Rough. Select these settings using the Embedded Web Server, or from the printer control panel Paper menu.
- To prevent print quality problems, avoid getting fingerprints on the transparencies.
- Before loading transparencies, fan the stack to prevent sheets from sticking together.
- We recommend Lexmark part number 70X7240 for letter‑size transparencies and Lexmark part number 12A5010 for A4‑size transparencies.

Tips on using envelopes

Print samples on the envelopes being considered for use before buying large quantities.

When printing on envelopes:

- Use envelopes designed specifically for laser printers. Check with the manufacturer or vendor to ensure the envelopes can withstand temperatures up to 210°C (410°F) without sealing, wrinkling, curling excessively, or releasing hazardous emissions.

  Note: Envelopes can be printed at a temperature up to 220°C (428°F) if Envelope Weight is set to Heavy and Envelope Texture is set to Rough. Select these settings using the Embedded Web Server, or from the printer control panel Paper menu.
- For the best performance, use envelopes made from 90 g/m^2 (24 lb bond) paper. Use up to 105 g/m^2 (28 lb bond) weight for envelopes as long as the cotton content is 25% or less. All‑cotton envelopes must not exceed 90 g/m^2 (24 lb bond) weight.
- Use only new envelopes.
- To optimize performance and minimize jams, do not use envelopes that:
  - Have excessive curl or twist
  - Are stuck together or damaged in any way
  - Have windows, holes, perforations, cutouts, or embossing
  - Have metal clasps, string ties, or folding bars
  - Have an interlocking design
  - Have postage stamps attached
  - Have any exposed adhesive when the flap is in the sealed or closed position
  - Have bent corners
  - Have rough, cockle, or laid finishes
- Adjust the width guides to fit the width of the envelopes.

Note: A combination of high humidity (over 60%) and the high printing temperature may wrinkle or seal envelopes.

Tips on using labels

Print samples on the labels being considered for use before buying large quantities.

Note: Use only paper label sheets. Vinyl, pharmacy, and dual‑sided labels are not supported.

For detailed information on label printing, characteristics, and design, see the *Card Stock & Label Guide* available on the Lexmark Web site at **http://support.lexmark.com**.

When printing on labels:

- Use labels designed specifically for laser printers. Check with the manufacturer or vendor to verify that:
  - The labels can withstand temperatures up to 210°C (410°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions.

    Note: Labels can be printed at a higher fusing temperature up to 220°C (428°F) if Label Weight is set to Heavy. Select this setting using the Embedded Web Server, or from the printer control panel Paper menu.
  - Label adhesives, face sheet (printable stock), and topcoats can withstand up to 25‑psi (172‑kPa) pressure without delaminating, oozing around the edges, or releasing hazardous fumes.
- Do not use labels with slick backing material.
- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam. Partial sheets also contaminate the printer and the cartridge with adhesive, and could void the printer and cartridge warranties.
- Do not use labels with exposed adhesive.
- Do not print within 1 mm (0.04 in.) of the edge of the label, of the perforations, or between die‑cuts of the label.
- Be sure adhesive backing does not reach to the sheet edge. Zone coating of the adhesive at least 1 mm (0.04 in.) away from edges is recommended. Adhesive material contaminates the printer and could void the warranty.
- If zone coating of the adhesive is not possible, remove a 2‑mm (0.06‑in.) strip on the leading and driver edge, and use a non‑oozing adhesive.
- Portrait orientation works best, especially when printing bar codes.

Tips on using card stock

Card stock is heavy, single‑ply specialty media. Many of its variable characteristics, such as moisture content, thickness, and texture, can significantly impact print quality. Print samples on the card stock being considered for use before buying large quantities.

When printing on card stock:

- Make sure the Paper Type is Card Stock.
- Select the appropriate Paper Texture setting.
- Be aware that preprinting, perforation, and creasing may significantly affect the print quality and cause jams or other paper handling problems.
- Check with the manufacturer or vendor to ensure the card stock can withstand temperatures up to 210°C (410°F) without releasing hazardous emissions.
- Do not use preprinted card stock manufactured with chemicals that may contaminate the printer. Preprinting introduces semi‑liquid and volatile components into the printer.
- Use grain short card stock when possible.

Printing confidential and other held jobs

Holding jobs in the printer

When sending a job to the printer, you can specify that you want the printer to hold the job in memory until you start the job from the printer control panel. All print jobs that can be initiated by the user at the printer are called *held jobs*.

Note: Confidential, Verify, Reserve, and Repeat print jobs may be deleted if the printer requires extra memory to process additional held jobs.

Job type	Description
Confidential	When you send a Confidential print job to the printer, you must create a PIN from the computer. The PIN must be four digits using the numbers 0–9. The job is held in printer memory until you enter the PIN from the printer control panel and choose to print or delete the job.
Verify	When you send a Verify print job, the printer prints one copy and holds the remaining copies in printer memory. Verify lets you examine the first copy to see if it is satisfactory before printing the remaining copies. Once all copies are printed, the job is automatically deleted from printer memory.
Reserve	When you send a Reserve print job, the printer does not print the job immediately. It stores the job in memory so you can print the job later. The job is held in memory until you delete it from the Held Jobs menu.
Repeat	When you send a Repeat print job, the printer prints all requested copies of the job *and* stores the job in memory so you can print additional copies later. You can print additional copies as long as the job remains stored in memory.

Other types of held jobs include:

- Profiles from various sources including Lexmark™ Document Solutions Suite (LDSS)
- Forms from a kiosk
- Bookmarks
- Jobs not printed, which are called *parked jobs*

Printing confidential and other held jobs

Note: Confidential and Verify print jobs are automatically deleted from memory after they print. Repeat and Reserve jobs continue to be held in the printer until you choose to delete them.

For Windows Users

1. With a document open, click **File** > **Print**.
2. Click **Properties**, **Preferences**, **Options**, or **Setup**.
3. Click **Other Options**, and then click **Print and Hold**.
4. Select your job type (Confidential, Repeat, Reserve, or Verify), and then assign a user name. For a confidential job, also enter a four-digit PIN.
5. Click **OK** or **Print**, and then go to the printer to release the job.

6. From the printer control panel, press the up or down arrow button until √`Held jobs` appears, and then press .
7. Press the up or down arrow button until √ appears next to your user name, and then press .
8. Press the up or down arrow button until √ appears next to the job type or job name, and then press .

   If you selected a job name, proceed to step 11 on page 68.
9. After selecting your job type, use the keypad to enter your PIN.

   If you enter an invalid PIN, the Invalid PIN screen appears.

   - To re-enter the PIN, make sure √`Try again` appears, and then press .
   - To cancel the PIN, press the up or down arrow button until √`Cancel` appears, and then press .
10. Press the up or down arrow button until √ appears next to the job you want to print, and then press .
11. Press the up or down arrow button until √ appears next to the number of copies you want to print, and then press .

    Note: Use the keypad to enter a number if necessary.

For Macintosh users

1. With a document open, choose **File** > **Print**.

   If necessary, click the disclosure triangle to see more options.
2. From the print options or Copies & Pages pop-up menu, choose **Job Routing**.
3. Select your job type (Confidential, Repeat, Reserve, or Verify), and then assign a user name. For a confidential job, also enter a four-digit PIN.
4. Click **OK** or **Print**, and then go to the printer to release the job.
5. From the printer control panel, press the up or down arrow button until √`Held jobs` appears, and then press .
6. Press the up or down arrow button until √ appears next to your user name, and then press .
7. Press the up or down arrow button until √ appears next to the job type or job name, and then press .

   If you selected a job name, proceed to step 10 on page 68.
8. After selecting your job type, use the keypad to enter your PIN.

   If you enter an invalid PIN, the Invalid PIN screen appears.

   - To re-enter the PIN, make sure √`Try again` appears, and then press .
   - To cancel the PIN, press the up or down arrow button until √`Cancel` appears, and then press .
9. Press the up or down arrow button until √ appears next to the job you want to print, and then press .
10. Press the up or down arrow button until √ appears next to the number of copies you want to print, and then press .

    Note: Use the keypad to enter a number if necessary.

Printing information pages

For more information on printing information pages, see “Printing a menu settings page” on page 28 and “Printing a network setup page” on page 29.

Printing a font sample list

To print samples of the fonts currently available for your printer:

1. Make sure the printer is on and **`Ready`** appears.
2. From the printer control panel, press .
3. Press the up or down arrow button until √**`Reports`** appears, and then press .
4. Press the up or down arrow button until √**`Print Fonts`** appears, and then press .
5. Press the up or down arrow button until √ appears next to **`PCL Fonts`**, **`PostScript Fonts`**, or **`PPDS Fonts`**, and then press .

   Note: PPDS Fonts appear only if the PPDS datastream has been activated.

   After the font sample list prints, **`Ready`** appears.

Printing a directory list

A directory list shows the resources stored in flash memory.

1. Make sure the printer is on and **`Ready`** appears.
2. From the printer control panel, press .
3. Press the up or down arrow button until √**`Reports`** appears, and then press .
4. Press the up or down arrow button until √**`Print Directory`** appears, and then press .

After the directory list prints, the printer returns to the **`Ready`** state.

Printing the print quality test pages

Print the print quality test pages to isolate print quality problems.

1. Turn the printer off.
2. Hold down and the right arrow button while turning the printer on.
3. Release the buttons when the clock appears, and wait for **`CONFIG MENU`** to appear.
4. Press the up or down arrow button until √**`Prt Quality Pgs`** appears, and then press .

   The print quality test pages print.
5. Press the up or down arrow button until √**`Exit Config Menu`** appears, and then press .

   `Resetting the Printer` appears briefly, followed by a clock, and then **`Ready`** appears.

Canceling a print job

Canceling a print job from the printer control panel

If the job is formatting or already printing, and `Cancel a job` appears on the first line of the display:

1. Press the up or down arrow button until √`Cancel` appears.

   A list of jobs appears.

2. Press the up or down arrow button until √ appears next to the job you want to cancel, and then press ✓.

Note: Once a print job is sent, to easily cancel a job, press ✕. The `Stopped` screen appears. Press the up or down arrow button until √`Cancel a job` appears, and then press ✓.

Canceling a print job from the computer

For Windows users

1. Open the printers folder:
   a. Click , or click **Start** and then click **Run**.
   b. In the Start Search or Run box, type `control printers`.
   c. Press **Enter**, or click **OK**.

      The printers folder opens.
2. Double-click the printer icon.
3. Select the job to cancel.
4. From the keyboard, press **Delete**.

From the Windows taskbar:

When you send a job to print, a small printer icon appears in the right corner of the taskbar.

1. Double-click the printer icon.

   A list of print jobs appears in the printer window.
2. Select a job to cancel.
3. From the keyboard, press **Delete**.

For Macintosh users

In Mac OS X version 10.5 or later:

1. From the Apple menu, choose **System Preferences**.
2. Click **Print & Fax**, and then double-click the printer icon.
3. From the printer window, select the job to cancel.
4. From the icon bar at the top of the window, click the **Delete** icon.

In Mac OS X version 10.4 and earlier:

1. From the Go menu, choose **Applications**.
2. Double-click **Utilities**, and then double-click **Printer Setup Utility** or **Print Center**.
3. Double-click the printer icon.
4. From the printer window, select the job to cancel.
5. From the icon bar at the top of the window, click the **Delete** icon.

Understanding printer menus

Menus list

Paper Menu

Default Source
Paper Size/Type
Configure MP
Substitute Size
Paper Texture
Paper Weight
Paper Loading
Custom Types
Universal Setup

Reports

Menu Settings Page
Device Statistics
Network Setup Page
Wireless Setup Page
Profiles List
Netware Setup Page
Print Fonts
Print Directory
Asset Report

Network/Ports

Active NIC
Standard Network Menu
Standard USB Menu
Parallel Menu
SMTP Setup Menu

Security

Miscellaneous
Confidential Print
Security Audit Log
Set Date/Time

Settings

General Settings
Setup Menu
Finishing Menu
Quality Menu
Utilities Menu
XPS Menu
PDF Menu
PostScript Menu
PCL Emul Menu
HTML Menu
Image Menu

Paper menu

Default Source menu

Menu item	Description
Default Source Tray <x> MP Feeder Manual Paper Manual Env	Sets a default paper source for all print jobs **Notes:** • From the Paper menu, Configure MP must be set to Cassette in order for MP Feeder to appear as a menu setting. • Tray 1 is the factory default setting. • Only an installed paper source will appear as a menu setting. • A paper source selected by a print job will override the Default Source setting for the duration of the print job. • If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, the trays are automatically linked. When one tray is empty, the job prints using the linked tray.

Paper Size/Type menu

Menu item	Description
Tray <x> Size A4 A5 A6 JIS B5 Executive Folio Legal Letter Oficio (Mexico) Statement Universal	Specifies the paper size loaded in each tray **Notes:** • Letter is the US factory default setting. A4 is the international factory default setting. • If the same size and type of paper are in two trays and the Paper Size and Paper Type settings match, then the trays are automatically linked. The multipurpose feeder may also be linked. When one tray is empty, the job prints using paper from the linked tray. • The A6 paper size is supported only in Tray 1 and the multipurpose feeder.
Note: Only installed trays and feeders are listed in this menu.	

Menu item	Description
Tray <x> Type Plain Paper Transparency Recycled Labels Bond Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type <x>	Specifies the type of paper loaded in each tray **Notes:** • Plain Paper is the factory default setting for Tray 1. Custom Type <x> is the factory default setting for all other trays. • If available, a user-defined name will appear instead of Custom Type <x>. • Use this menu item to configure automatic tray linking.
Manual Paper Size A4 A5 A6 Executive Folio JIS B5 Legal Letter Oficio (Mexico) Statement Universal	Specifies the size of the paper being manually loaded in the multipurpose feeder **Note:** Letter is the US factory default setting. A4 is the international factory default setting.
Manual Paper Type Plain Paper Card Stock Transparency Recycled Labels Bond Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type <x>	Specifies the type of paper being manually loaded in the multipurpose feeder **Notes:** • Plain Paper is the factory default setting. • From the Paper menu, Configure MP must be set to Manual in order for Manual Paper to appear as a menu item.
Note: Only installed trays and feeders are listed in this menu.	

Menu item	Description
MP Feeder Size A4 A5 A6 Executive Folio JIS B5 Legal Letter Oficio (Mexico) Statement Universal 7 3/4 Envelope 9 Envelope 10 Envelope C5 Envelope B5 Envelope DL Envelope Other Envelope	Specifies the paper size loaded in the multipurpose feeder **Notes:** • Letter is the U.S. factory default setting. A4 is the international factory default setting. • The menu item applies only when the multipurpose feeder (MP Feeder) is configured for Cassette. From the Paper menu, Configure MP must be set to Cassette. • The multipurpose feeder does not automatically sense paper size. The paper size value must be set.
MP Feeder Type Plain Paper Card Stock Transparency Recycled Labels Bond Envelope Rough Envelope Letterhead Preprinted Colored Paper Light Paper Heavy Paper Rough/Cotton Custom Type <x>	Specifies the type of paper loaded in the multipurpose feeder **Notes:** • Plain Paper is the factory default setting. • From the Paper menu, Configure MP must be set to Cassette in order for MP Feeder to appear as a menu item.
Manual Env Size 7 3/4 Envelope 9 Envelope 10 Envelope C5 Envelope B5 Envelope DL Envelope Other Envelope	Specifies the size of the envelope being manually loaded in the multipurpose feeder **Note:** 10 Envelope is the US factory default setting. DL Envelope is the international factory default setting.
Note: Only installed trays and feeders are listed in this menu.	

Menu item	Description
Manual Env Type Envelope Custom Type <x>	Specifies the type of envelope being manually loaded in the multipurpose feeder. **Note:** Envelope is the factory default setting.
Note: Only installed trays and feeders are listed in this menu.	

Configure MP menu

Menu item	Description
Configure MP Cassette Manual	Determines when the printer selects paper from the multipurpose feeder **Notes:** • Cassette is the factory default setting. • The Cassette setting configures the multipurpose feeder as an automatic paper source. • When Manual is selected, the multipurpose feeder can be used only for manual feed print jobs.

Substitute Size menu

Menu item	Description
Substitute Size Off Statement/A5 Letter/A4 All Listed	Substitutes a specified paper size if the requested paper size is not available **Notes:** • All Listed is the factory default setting. All available substitutions are allowed. • The Off setting indicates no size substitutions are allowed. • Setting a substitution lets the job print without a Change Paper message appearing.

Paper Texture menu

Menu item	Description
Plain Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Card Stock Texture Smooth Normal Rough	Specifies the relative texture of the card stock loaded in a specific tray **Notes:** • Normal is the factory default setting. • Settings appear only if card stock is supported.

Menu item	Description
Transparency Texture Smooth Normal Rough	Specifies the relative texture of the transparencies loaded in a specific tray **Note:** Normal is the factory default setting.
Recycled Texture Smooth Normal Rough	Specifies the relative texture of the recycled paper loaded in a specific tray **Note:** Normal is the factory default setting.
Labels Texture Smooth Normal Rough	Specifies the relative texture of the labels loaded in a specific tray **Note:** Normal is the factory default setting.
Bond Texture Smooth Normal Rough	Specifies the relative texture of the bond paper loaded in a specific tray **Note:** Rough is the factory default setting.
Envelope Texture Smooth Normal Rough	Specifies the relative texture of the envelopes loaded in a specific tray **Note:** Normal is the factory default setting.
Rough Envelope Texture Rough	Specifies the relative texture of the envelopes loaded in a specific tray **Note:** Rough is the factory default setting.
Letterhead Texture Smooth Normal Rough	Specifies the relative texture of the letterhead paper loaded in a specific tray **Note:** Normal is the factory default setting.
Preprinted Texture Smooth Normal Rough	Specifies the relative texture of the preprinted paper loaded in a specific tray **Note:** Normal is the factory default setting.
Colored Texture Smooth Normal Rough	Specifies the relative texture of the colored paper loaded in a specific tray **Note:** Normal is the factory default setting.
Light Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Heavy Texture Smooth Normal Rough	Specifies the relative texture of the paper loaded in a specific tray **Note:** Normal is the factory default setting.

Menu item	Description
Rough/Cotton Texture Rough	Specifies the relative texture of the paper loaded in a specific tray **Note:** Rough is the factory default setting.
Custom <x> Texture Smooth Normal Rough	Specifies the relative texture of the custom paper loaded in a specific tray **Notes:** • Normal is the factory default setting. • Settings appear only if the custom type is supported.

Paper Weight menu

Menu item	Description
Plain Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Card Stock Weight Light Normal Heavy	Specifies the relative weight of the card stock loaded in a specific tray **Note:** Normal is the factory default setting.
Transparency Weight Light Normal Heavy	Specifies the relative weight of the transparencies loaded in a specific tray **Note:** Normal is the factory default setting.
Recycled Weight Light Normal Heavy	Specifies the relative weight of the recycled paper loaded in a specific tray **Note:** Normal is the factory default setting.
Labels Weight Light Normal Heavy	Specifies the relative weight of the labels loaded in a specific tray **Note:** Normal is the factory default setting.
Bond Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Envelope Weight Light Normal Heavy	Specifies the relative weight of the envelopes loaded in a specific tray **Note:** Normal is the factory default setting.

Menu item	Description
Rough Envelope Weight Light Normal Heavy	Specifies the relative weight of the rough envelopes loaded in a specific tray **Note:** Normal is the factory default setting.
Letterhead Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Preprinted Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Colored Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Light Weight Light	Specifies the relative weight of the paper loaded in a specific tray
Heavy Weight Heavy	Specifies the relative weight of the paper loaded in a specific tray
Rough/Cotton Weight Light Normal Heavy	Specifies the relative weight of the paper loaded in a specific tray **Note:** Normal is the factory default setting.
Custom <x> Weight Light Normal Heavy	Specifies the relative weight of the custom paper type loaded in a specific tray **Notes:** • Normal is the factory default setting. • Settings appear only if the custom type is supported.

Paper Loading menu

Menu item	Description
Recycled Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Recycled as the paper type **Note:** Off is the factory default setting.

Notes:

- Duplex sets the printer default to 2-sided printing for every print job unless 1-sided printing is selected from Print Properties.
- If Duplex is selected, all print jobs are sent through the duplex unit, including 1-sided jobs.

Menu item	Description
Bond Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Bond as the paper type **Note:** Off is the factory default setting.
Letterhead Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Letterhead as the paper type **Note:** Off is the factory default setting.
Preprinted Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Preprinted as the paper type **Note:** Off is the factory default setting.
Colored Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Colored as the paper type **Note:** Off is the factory default setting.
Light Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Light as the paper type **Note:** Off is the factory default setting.
Heavy Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Heavy as the paper type **Note:** Off is the factory default setting.
Custom <x> Loading Duplex Off	Determines whether 2-sided printing occurs for all jobs that specify Custom <x> as the paper type **Notes:** • Off is the factory default setting. • Custom <x> Loading is available only if the custom type is supported.
Notes: • Duplex sets the printer default to 2-sided printing for every print job unless 1-sided printing is selected from Print Properties. • If Duplex is selected, all print jobs are sent through the duplex unit, including 1-sided jobs.	

Custom Types menu

Menu item	Description
Custom Type <x> Paper Card Stock Transparency Labels Envelope Rough/Cotton	Associates a paper or specialty media type with a factory default `Custom Type <x>` name or a user-defined Custom Name created from the Embedded Web Server or MarkVision™ Professional. This user-defined name displays instead of **Custom Type <x>**. **Notes:** • Paper is the factory default setting for the Custom Type. • The custom media type must be supported by the selected tray or feeder in order for you to print from that source.

Menu item	Description
Recycled Paper Card Stock Transparency Labels Envelope Cotton	Specifies a paper type when the Recycled setting is selected in other menus **Notes:** • Paper is the factory default setting. • The Recycled type must be supported by the selected tray or feeder in order for you to print from that source.

Universal Setup menu

These menu items are used to specify the height, width, and feed direction of the Universal Paper Size. The Universal Paper Size is a user-defined paper size. It is listed with the other paper size settings and includes similar options, such as support for duplex printing and printing multiple pages on one sheet.

Menu item	Description
Units of Measure Inches Millimeters	Identifies the units of measure **Notes:** • Inches is the US factory default setting. • Millimeters is the international factory default setting.
Portrait Width 3–14.17 inches 76–360 mm	Sets the portrait width **Notes:** • If the width exceeds the maximum, then the printer uses the maximum width allowed. • 8.5 inches is the US factory default setting. Inches can be increased in 0.01-inch increments. • 216 mm is the international factory default setting. Millimeters can be increased in 1-mm increments.
Portrait Height 3–14.17 inches 76–360 mm	Sets the portrait height **Notes:** • If the height exceeds the maximum, then the printer uses the maximum height allowed. • 14 inches is the US factory default setting. Inches can be increased in 0.01-inch increments. • 356 mm is the international factory default setting. Millimeters can be increased in 1-mm increments.
Feed Direction Short Edge Long Edge	Specifies the feed direction **Notes:** • Short Edge is the factory default setting. • Long Edge appears only if the longest edge is shorter than the maximum length supported in the tray.

Reports menu

Reports menu

To print a report, use the arrow buttons to navigate to the type of report you want, and then press ✓.

Menu item	Description
Menu Settings Page	Prints a report containing information about paper loaded into trays, installed memory, the total page count, alarms, timeouts, the printer control panel language, the TCP/IP address, the status of supplies, the status of the network connection, and other information
Device Statistics	Prints a report containing printer statistics such as supply information and details about printed pages
Network Setup Page	Prints a report containing information about the network printer settings, such as the TCP/IP address information **Note:** This menu item appears only for network printers or printers connected to print servers.
Network <x> Setup Page	Prints a report containing information about the network printer settings, such as the TCP/IP address information **Notes:** • This menu item is available when more than one network option is installed. • This menu item appears only for network printers or printers connected to print servers.
Wireless Setup Page	Prints a report containing information about the wireless network printer settings, such as the TCP/IP address information **Notes:** • This menu item is available on the wireless printer model. • This menu item appears only for network printers or printers connected to print servers.
Profiles List	Prints a list of profiles stored in the printer
NetWare Setup Page	Prints a report containing NetWare-specific information about the network settings **Note:** This menu item appears only for printers with an internal print server installed.
Print Fonts PCL Fonts PostScript Fonts	Prints a report in English of all the fonts available for the printer language currently set in the printer **Note:** A separate list is available for PCL and PostScript emulations. Each emulation report contains print samples and information about the available fonts for each language.

Menu item	Description
Print Directory	Prints a list of all the resources stored on an optional flash memory card **Notes:** • Job Buffer Size must be set to 100%. • The optional flash memory must be installed correctly and working properly.
Asset Report	Prints a report containing asset information including the printer serial number and model name. The report contains text and UPC barcodes that can be scanned into an asset database.

Network/Ports menu

Active NIC menu

Menu item	Description
Active NIC Auto <list of available network cards>	**Notes:** • Auto is the factory default setting. • This menu item appears only if an optional network card is installed.

Standard Network or Network <x> menus

Menu item	Description
PCL SmartSwitch On Off	Sets the printer to automatically switch to PCL emulation when a print job requires it, regardless of the default printer language **Notes:** • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PostScript emulation if PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PS SmartSwitch is set to Off.
PS SmartSwitch On Off	Sets the printer to automatically switch to PS emulation when a print job requires it, regardless of the default printer language **Notes:** • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PCL emulation if PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PCL SmartSwitch is set to Off.

Menu item	Description
NPA Mode Off Auto	Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol **Notes:** • Auto is the factory default setting. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Network Buffer Auto 3K to <maximum size allowed>	Sets the size of the network input buffer **Notes:** • Auto is the factory default setting. • The value can be changed in 1K increments. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. • To increase the maximum size range for the Network Buffer, disable or reduce the size of the parallel and USB buffers. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Mac Binary PS On Off Auto	Sets the printer to process Macintosh binary PostScript print jobs **Notes:** • Auto is the factory default setting. • The Off setting filters print jobs using the standard protocol. • The On setting processes raw binary PostScript print jobs.
Std Network Setup Reports Network Card TCP/IP IPv6 Wireless AppleTalk NetWare LexLink **Net <x> Setup** Reports Network Card TCP/IP IPv6 Wireless Apple Talk NetWare LexLink	For descriptions and settings of the network setup menus, see the following: • “Reports menu (under the Network/Ports menu)” on page 85 • “Network Card menu” on page 85 • “TCP/IP menu” on page 85 • “IPv6 menu” on page 86 • “Wireless menu” on page 87 • “AppleTalk menu” on page 88 • “NetWare menu” on page 88 • “LexLink menu” on page 89 **Note:** The Wireless menu appears only when the printer is connected to a wireless network.

Reports menu (under the Network/Ports menu)

The Reports menu item is available from the Network/Ports menu:

Network/Ports > **Standard Network** or **Network <x>** > **Std Network Setup** or **Net <x> Setup** > **Reports**

Menu item	Description
Print Setup Page **Print NetWare Setup Page**	Prints a report containing information about the current network setup **Notes:** • The Setup Page contains information about the network printer settings, such as the TCP/IP address. • The NetWare Setup Page menu item appears only on models that support NetWare and shows information about NetWare settings.

Network Card menu

This menu is available from the Network/Ports menu:

Network/Ports > **Network Menu** > **Network Setup** > **Network Card**

Menu item	Description
View Card Status Connected Disconnected	Lets you determine whether the Network Card is connected
View Card Speed	Reflects the speed of a currently active network card
Network Address UAA LAA	Lets you view the network addresses
Job Timeout 0-225 seconds	Sets the amount of time in seconds that a network print job can take before it is canceled **Notes:** • 90 seconds is the factory default setting. • A setting value of 0 disables the timeout. • If a value of 1–9 is selected, the setting is saved as 10.
Banner Page On Off	Allows the printer to print a banner page **Note:** Off is the factory default setting.

TCP/IP menu

Note: This menu is available only for network models or printers attached to print servers.

This menu is available from the Network/Ports menu:

Network/Ports > **Network Menu** > **Network Setup** > **TCP/IP**

Menu item	Description
Activate On Off	Activates TCP/IP **Note:** On is the factory default setting.
View Hostname	Lets you view the current TCP/IP hostname **Note:** This can be changed only from the Embedded Web Server.
IP Address	Lets you view or change the current TCP/IP Address information **Note:** Manually setting the IP address sets the Enable DHCP and Enable Auto IP settings to Off. It also sets Enable BOOTP and Enable RARP to Off on systems that support BOOTP and RARP.
Netmask	Lets you view or change the current TCP/IP Netmask information
Gateway	Lets you view or change the current TCP/IP Gateway information
Enable DHCP On Off	Specifies the DHCP address and parameter assignment setting **Note:** On is the factory default setting.
Enable RARP On Off	Specifies the RARP address assignment setting **Note:** On is the factory default setting.
Enable BOOTP On Off	Specifies the BOOTP address assignment setting **Note:** On is the factory default setting.
Enable Auto IP Yes No	Specifies the Zero Configuration Networking setting **Note:** Yes is the factory default setting.
Enable FTP/TFTP Yes No	Enables the built-in FTP server, which allows files to be transferred to the printer **Note:** Yes is the factory default setting.
Enable HTTP Server Yes No	Enables the built-in Web server (Embedded Web Server). When enabled, the printer can be monitored and managed remotely using a Web browser. **Note:** Yes is the factory default setting.
WINS Server Address	Lets you view or change the current WINS Server Address
DNS Server Address	Lets you view or change the current DNS Server Address
Enable HTTPS Yes No	Lets you view or change the current HTTPS setting **Note:** Yes is the factory default setting.

IPv6 menu

Use the following menu items to view or set the Internet Protocol version 6 (IPv6) information.

Note: This menu is available only for network models or printers attached to print servers.

This menu is available from the Network/Ports menu:

Network/Ports > **Network Menu** > **Network Setup** > **IPv6**

Menu item	Description
Enable IPv6 On Off	Enables IPv6 in the printer **Note:** On is the factory default setting.
Auto Configuration On Off	Specifies whether the network adapter accepts the automatic IPv6 address configuration entries provided by a router **Note:** On is the factory default setting.
View Hostname **View Address** **View Router Address**	Lets you view the current setting **Note:** These settings can be changed only from the Embedded Web Server.
Enable DHCPv6 On Off	Enables DHCPv6 in the printer **Note:** On is the factory default setting.

Wireless menu

Use the following menu items to view or configure the wireless internal print server settings.

Note: This menu is available only for models connected to a wireless network.

This menu is available from the Network/Ports menu:

Network/Ports > **Network <x>** > **Net <x> Setup** > **Wireless**

Menu item	Description
Network Mode Infrastructure Ad hoc	Specifies the network mode **Notes:** • Infrastructure mode lets the printer access a network using an access point. • Ad hoc is the factory default setting. Ad hoc mode configures the printer for wireless networking directly between it and a computer.
Compatibility 802.11n 802.11b/g 802.11b/g/n	Specifies the wireless standard for the wireless network
Choose Network <list of available networks>	Lets you select an available network for the printer to use
View Signal Quality	Lets you view the quality of the wireless connection
View Security Mode	Lets you view the encryption method for the wireless connection. “Disabled” indicates that the wireless network is not encrypted.

AppleTalk menu

This menu is available from the Network/Ports menu:

Network/Ports > **Network Menu** > **Network Setup** > **AppleTalk**

Menu item	Description
Activate On Off	Activates or deactivates AppleTalk support **Note:** On is the factory default setting.
View Name	Shows the assigned AppleTalk name **Note:** The name can be changed only from the Embedded Web Server.
View Address	Shows the assigned AppleTalk address **Note:** The address can be changed only from the Embedded Web Server.
Set Zone <list of zones available on the network>	Provides a list of AppleTalk zones available on the network **Note:** The default setting is the default zone for the network. If no default zone exists, the zone marked with an * is the default setting.

NetWare menu

This menu is available from the Network/Ports menu:

Network/Ports > **Network Menu** > **Network Setup** > **NetWare**

Menu item	Description
Activate Yes No	Activates or deactivates NetWare support **Note:** No is the factory default setting.
View Login Name	Shows the assigned NetWare login name **Note:** This can be changed only from the Embedded Web Server.
Print Mode	Shows the assigned NetWare print mode **Note:** This can be changed only from the Embedded Web Server.
Network Number	Shows the assigned NetWare network number **Note:** This can be changed only from the Embedded Web Server.
Select SAP Frames Ethernet 802.2 Ethernet 802.3 Ethernet Type II Ethernet SNAP	Enables the Ethernet frame type setting **Notes:** • On is the factory default setting for all menu items. • Values for each of the Ethernet frame types are On and Off.
Packet Burst Yes No	Reduces network traffic by allowing the transfer and acknowledgement of multiple data packets to and from the NetWare server **Note:** Yes is the factory default setting.

Menu item	Description
NSQ/GSQ Mode Yes No	Specifies the NSQ/GSQ Mode setting **Note:** Yes is the factory default setting.

LexLink menu

This menu is available from the Network/Ports menu:

Network/Ports > **Network Menu** > **Network Setup** > **LexLink menu**

Menu item	Description
Activate On Off	Activates or deactivates LexLink support **Note:** Off is the factory default setting.
View Nickname	Shows the assigned LexLink nickname **Note:** The LexLink nickname can be changed only from the Embedded Web Server.

USB menu

Menu item	Description
PCL SmartSwitch On Off	Sets the printer to automatically switch to PCL emulation when a print job received through a USB port requires it, regardless of the default printer language **Notes:** • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PostScript emulation if the PS Smartswitch setting is On. It uses the default printer language specified in the Setup menu if the PS SmartSwitch setting is Off.
PS SmartSwitch On Off	Sets the printer to automatically switch to PS emulation when a print job received through a USB port requires it, regardless of the default printer language **Notes:** • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PCL emulation if the PCL Smartswitch setting is On. It uses the default printer language specified in the Setup menu if the PCL SmartSwitch setting is Off.
NPA Mode On Off Auto	Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol **Notes:** • Auto is the factory default setting. • Changing this setting causes the printer to restart.

Menu item	Description
USB Buffer Disabled Auto 3K to <maximum size allowed>	Sets the size of the USB input buffer **Notes:** • Auto is the factory default setting. • The Disabled setting turns off job buffering. Any jobs already buffered on the disk are printed before normal processing is resumed. • The USB buffer size value can be changed in 1K increments. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether the Resource Save setting is On or Off. • To increase the maximum size range for the USB Buffer, disable or reduce the size of the parallel and network buffers. • Changing this setting causes the printer to restart.
Mac Binary PS On Off Auto	Sets the printer to process Macintosh binary PostScript print jobs **Notes:** • Auto is the factory default setting. • The Off setting filters print jobs using the standard protocol. • The On setting processes raw binary PostScript print jobs.
ENA Address <xxx>.<xxx>.<xxx>.<xxx>	Sets the network address information for an external print server that is attached to the printer using a USB cable **Note:** This menu item is available only if the printer is attached to an external print server through the USB port.
ENA Netmask <xxx>.<xxx>.<xxx>.<xxx>	Sets the netmask information for an external print server that is attached to the printer using a USB cable **Note:** This menu item is available only if the printer is attached to an external print server through the USB port.
ENA Gateway <xxx>.<xxx>.<xxx>.<xxx>	Sets the gateway information for an external print server that is attached to the printer using a USB cable **Note:** This menu item is available only if the printer is attached to an external print server through the USB port.

Parallel menu

Menu item	Description
PCL SmartSwitch On Off	Sets the printer to automatically switch to PCL emulation when a print job received through a USB port requires it, regardless of the default printer language **Notes:** • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PostScript emulation if PS SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PS SmartSwitch is set to Off. • PCL SmartSwitch is shown only if the PostScript level is non-zero.
PS SmartSwitch On Off	Sets the printer to automatically switch to PS emulation when a print job received through a USB port requires it, regardless of the default printer language **Notes:** • On is the factory default setting. • When the Off setting is used, the printer does not examine incoming data. • When the Off setting is used, the printer uses PCL emulation if PCL SmartSwitch is set to On. It uses the default printer language specified in the Setup menu if PCL SmartSwitch is set to Off. • PS SmartSwitch is shown only if the PostScript level is non-zero.
NPA Mode On Off Auto	Sets the printer to perform the special processing required for bidirectional communication following the conventions defined by the NPA protocol **Notes:** • Auto is the factory default setting. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.
Parallel Buffer Disabled Auto 3K to <max size allowed>	Sets the size of the parallel input buffer **Notes:** • Auto is the factory default setting. • The Disabled setting turns off job buffering. Any jobs already buffered on the disk are printed before normal processing is resumed. • The parallel buffer size setting can be changed in 1-K increments. • The maximum size allowed depends on the amount of memory in the printer, the size of the other link buffers, and whether Resource Save is set to On or Off. • To increase the maximum size range for the Parallel Buffer, disable or reduce the size of the USB and network buffers. • Changing this setting from the printer control panel and then exiting the menus causes the printer to restart. The menu selection is updated.

Menu item	Description
Advanced Status Off On	Enables bidirectional communication through the parallel port **Notes:** • On is the factory default setting. • The Off setting disables parallel port negotiation.
Protocol Standard Fastbytes	Specifies the parallel port protocol **Notes:** • Fastbytes is the factory default setting. It provides compatibility with most existing parallel ports and is the recommended setting. • The Standard setting tries to resolve parallel port communication problems.
Honor Init On Off	Determines whether the printer honors printer hardware initialization requests from the computer **Notes:** • Off is the factory default setting. • The computer requests initialization by activating the Init signal from the parallel port. Many personal computers activate the Init signal each time the computer is turned on.
Parallel Mode 2 On Off	Determines whether the parallel port data is sampled on the leading or trailing edge of strobe **Note:** On is the factory default setting.
Mac Binary PS On Off Auto	Sets the printer to process Macintosh binary PostScript print jobs **Notes:** • Auto is the factory default setting. • The Off setting filters print jobs using the standard protocol. • The On setting processes raw binary PostScript print jobs.
Parallel with ENA ENA Address ENA Netmask ENA Gateway	• ENA Address sets the network address information for an external print server that is attached to the printer using a parallel cable • ENA Netmask sets the netmask information for an external print server that is attached to the printer using a parallel cable • ENA Gateway sets the gateway information for an external print server that is attached to the printer using a parallel cable **Note:** Parallel with ENA is available only if the printer is attached to an external print server through the parallel port.

SMTP Setup menu

Use the following menu to configure the SMTP server.

Menu item	Description
Primary SMTP Gateway **Primary SMTP Gateway Port** **Secondary SMTP Gateway** **Secondary SMTP Gateway Port**	Specifies SMTP server and port information **Note:** 25 is the factory default setting for each SMTP Gateway Port menu item.
SMTP Timeout 5–30	Specifies the amount of time in seconds before the server stops trying to send the e-mail **Note:** 30 seconds is the factory default setting.
Reply Address	Specifies server information. This is a required item. **Note:** The message box has a limitation of 512 characters.
Use SSL Disabled Negotiate Required	Sets the printer to use SSL for increased security when connecting to the SMTP server **Notes:** • Disabled is the factory default setting for Use SSL. • When the Negotiate setting is used, your SMTP server determines if SSL will be used.
SMTP Server Authentication None Plain (Simple) CRAM MD5 Digest MD5 NTLM Kerberos 5	Specifies the type of user authentication required for scan to e-mail privileges **Note:** None is the factory default setting.
Device-Initiated E-mail None Use Device Credentials **User-Initiated E-mail** None Use Device SMTP Credentials **Device Userid** **Device password** **Kerberos 5 Realm** **NTLM Domain**	Specifies server information **Notes:** • The message boxes have a limitation of 512 characters. • None is the factory default setting for Device-Initiated E-mail and User-Initiated E-mail.

Security menu

Miscellaneous menu

Menu item	Description
Login Restrictions Login failures Failure time frame Lockout time Panel Login timeout Remote Login timeout	Limits the number and time frames of failed login attempts from the printer control panel before *all* users are locked out **Notes:** • "Login failures" specifies the number of failed login attempts before users are locked out. Settings range from 1–50. 3 attempts is the factory default setting. • "Failure time frame" specifies the time frame during which failed login attempts can be made before users are locked out. Settings range from 1–60 minutes. 5 minutes is the factory default setting. • "Lockout time" specifies how long users are locked out after exceeding the login failures limit. Settings range from 0–60 minutes. 5 minutes is the factory default setting. 0 indicates the printer does not impose a lockout time. • "Panel Login Timeout" specifies how long the printer remains idle on the Home screen before automatically logging the user off. Settings range from 1–900 seconds. 300 seconds is the factory default setting. • "Remote Login Timeout" specifies how long the remote interface remains idle before automatically logging the user off. Settings range from 1–120 minutes.

Confidential Print menu

Menu item	Description
Max Invalid PIN Off 2–10	Limits the number of times an invalid PIN can be entered **Notes:** • Off is the factory default setting. • Once a limit is reached, the jobs for that user name and PIN are deleted.
Job Expiration Off 1 hour 4 hours 24 hours 1 week	Limits the amount of time a confidential job stays in the printer before it is deleted **Note:** Off is the factory default setting.

Security Audit Log menu

Menu item	Description
Export Log	Enables an authorized user to export the security log **Notes:** • To export the log from the printer control panel, a flash drive must be attached to the printer. • From the Embedded Web Server, the log can be downloaded to a computer.
Delete Log Delete now Do not delete	Specifies whether audit reports of print jobs are deleted **Note:** Delete now is the factory default setting.
Configure Log Enable Audit Yes No Enable Remote Syslog No Yes Remote Syslog Facility 0–23 Severity of events to log 0–7	Specifies whether and how the audit logs of print jobs are created: • Enable Audit determines if the printer records events in the secure audit log and in the remote syslog. • Enable Remote Syslog determines if the printer sends logged events to a remote server. • Remote Syslog Facility determines the facility value that the printer uses when sending events to the remote syslog server. • "Severity of events to log" specifies how critical a logged event is. With this log activated, the printer logs each event with a severity value equal to or less than the setting value. 0 is Emergency 1 is Alert 2 is Critical 3 is Error 4 is Warning 5 is Notice 6 is Informational 7 is Debug **Notes:** • Yes is the factory default setting for Enable Audit. • No is the factory default setting for Enable Remote Syslog. If Enable Audit is set to No, then no records are sent to the remote syslog even if Enable Remote Syslog is set to Yes. • 4 - Security is the factory default setting for Remote Syslog Facility. • 4 is the factory default setting for Severity of events to log.

Set Date/Time menu

Menu item	Description
View Date/Time	Lets you view the current date and time settings for the printer. The format for the date and time is: YYYY-MM-DD HH:MM: YYYY is the four-digit year MM is a two-digit month DD is a two-digit date HH is a two-digit hour MM is a two-digit minute
Set Date/Time	Lets you enter the date and time **Note:** Date/Time is set in YYYY-MM-DD HH:MM format.
Time Zone <list of time zones>	Lets you select the time zone **Note:** GMT is the factory default setting.
Observe DST On Off	Sets the printer to use the applicable Daylight Saving Time (DST) start and end times associated with the printer Time Zone setting. **Note:** On is the factory default setting.
Enable NTP On Off	Enables Network Time Protocol, which synchronizes the clocks of devices on a network **Note:** On is the factory default setting.

Settings menu

General Settings menu

Menu item	Description
Display Language English Francais Deutsch Italiano Espanol Dansk Norsk Nederlands Svenska Portuguese Suomi Russian Polski Magyar Turkce Cesky Simplified Chinese Traditional Chinese Korean Japanese	Sets the language of the text appearing on the display
Eco-Mode Off Energy Energy/Paper Paper	Minimizes the use of energy, paper, or specialty media **Notes:** • Off is the factory default setting. Off resets the printer to its factory default settings. • The Energy setting minimizes the power used by the printer. Performance may be affected, but print quality is not. • Paper minimizes the amount of paper and specialty media needed for a print job by printing on both sides of the paper. Performance may be affected, but print quality is not. • Energy/Paper minimizes the use of power and of paper and specialty media.
Quiet Mode Off On	Reduces the amount of noise produced by the printer **Notes:** • Off is the factory default setting. • On configures the printer to produce as little noise as possible.

<table>
<tr><th>Menu item</th><th>Description</th></tr>
<tr><td>Run Initial setup
Yes
No</td><td>Instructs the printer to run the setup wizard
Notes:
Yes is the factory default setting.
After completing the setup wizard by selecting Done at the country or region select screen, the default setting becomes No.</td></tr>
<tr><td>Paper Sizes
US
Metric</td><td>Sets paper sizes to use the standard US sizes, which may also be used in other countries, or to use metric sizes
Notes:
US is the factory default setting.
Changing this setting also changes the Units of Measurement setting in the Univeral Setup menu and the default size value for each paper source (tray or feeder) in the Paper Size/Type menu.</td></tr>
<tr><td>Alarms
Cartridge Alarm
Off
Single</td><td>Sets an alarm to sound when the printer requires operator intervention
Notes:
Off is the factory default setting for Cartridge Alarm. Off means no alarm will sound. <code>Cartridge low</code> appears on the display.
Single sounds three quick beeps. <code>88 Cartridge is low</code> appears on the display.</td></tr>
<tr><td>Timeouts
Power Saver
1min–240 min</td><td>Sets the amount of time the printer waits after a job is printed before it goes into a reduced power state
Notes:
30 minutes is the factory default setting.
Lower settings conserve more energy, but may require longer warm-up times.
Select the lowest setting if the printer shares an electrical circuit with room lighting or you notice lights flickering in the room.
Select a high setting if the printer is in constant use. Under most circumstances, this keeps the printer ready to print with minimum warm-up time.</td></tr>
<tr><td>Timeouts
Screen Timeout
15 sec–300 sec</td><td>Sets the amount of time in seconds the printer waits before returning the printer display to a <code>Ready</code> state
Note: 30 seconds is the factory default setting.</td></tr>
</table>

Menu item	Description
Timeouts Print Timeout Disabled 1 sec–255 sec	Sets the amount of time in seconds the printer waits to receive an end-of-job message before canceling the remainder of the print job **Notes:** • 90 seconds is the factory default setting. • When the timer expires, any partially printed page still in the printer is printed, and then the printer checks to see if any new print jobs are waiting. • Print Timeout is available only when using PCL or PPDS emulation. This setting has no effect on PostScript emulation print jobs. For more information on PPDS emulation, see the *Technical Reference* available on the Lexmark Web site at **www.lexmark.com**.
Timeouts Wait Timeout Disabled 15 sec–65535 sec	Sets the amount of time in seconds the printer waits for additional data before canceling a print job **Notes:** • 40 seconds is the factory default setting. • Wait Timeout is available only when the printer is using PostScript emulation. This setting has no effect on PCL or PPDS emulation print jobs.
Print Recovery Auto Continue Disabled 5 sec –255 sec	Lets the printer automatically continue printing from certain offline situations when not resolved within the specified time period **Note:** Disabled is the factory default setting.
Print Recovery Jam Recovery On Off Auto	Specifies whether the printer reprints jammed pages **Notes:** • Auto is the factory default setting. The printer reprints jammed pages unless the memory required to hold the pages is needed for other printer tasks. • On sets the printer to always reprint jammed pages. • Off sets the printer to never reprint jammed pages.
Print Recovery Page Protect Off On	Lets the printer successfully print a page that may not have printed otherwise **Notes:** • Off is the factory default setting. Off prints a partial page when there is not enough memory to print the whole page. • On sets the printer to process the whole page so that the entire page prints.

Menu item	Description
Factory Defaults Do Not Restore Restore Now	Returns the printer settings to the factory default settings **Notes:** • Do Not Restore is the factory default setting. Do Not Restore keeps the user-defined settings. • Restore Now returns all printer settings to the factory default settings except Network/Ports menu settings. All downloads stored in RAM are deleted. Downloads stored in flash memory are not affected.
Custom Home Message Off IP Address Hostname Contact Name Location Zero Configuration Name Custom Text 1	Sets a pre-configured or customized message to appear on the display beside `Ready` **Notes:** • Off is the factory default setting. • IP address and Hostname are pre-configured messages. • Contact Name, Location, Zero Configuration Name, and Custom Text 1 are messages that can be customized by a system support person.

Setup menu

Menu item	Description
Printer Language PCL Emulation PS Emulation	Sets the default printer language **Notes:** • PCL emulation uses a PCL interpreter for processing print jobs. PostScript emulation uses a PS interpreter for processing print jobs. • PCL is the factory default printer language. • Setting a printer language as the default does not prevent a software program from sending print jobs that use another printer language.

Menu item	Description
Print Area Normal Whole Page	Sets the logical and physical printable area **Notes:** • This menu does not appear if Edge to Edge is enabled in the printer Setup menu. • Normal is the factory default setting. When attempting to print data in the non-printable area defined by the Normal setting, the printer clips the image at the boundary. • The Whole Page setting allows the image to be moved into the non-printable area defined by the Normal setting, but the printer will clip the image at the Normal setting boundary. • The Whole Page setting affects only pages printed using a PCL 5e interpreter. This setting has no effect on pages printed using the PCL XL or PostScript interpreter.
Download Target RAM Flash	Sets the storage location for downloads **Notes:** • RAM is the factory default setting. • Storing downloads in flash memory places them in permanent storage. Downloads remain in flash memory even when the printer is turned off. • Storing downloads in RAM is temporary. • This menu appears only if optional flash memory is installed.
Resource Save On Off	Specifies how the printer handles temporary downloads, such as fonts and macros stored in RAM, when the printer receives a job that requires more memory than is available **Notes:** • Off is the factory default setting. Off sets the printer to retain the downloads only until memory is needed. Downloads are deleted in order to process print jobs. • The On setting retains the downloads during language changes and printer resets. If the printer runs out of memory, **`38 Memory full`** appears, and downloads are not deleted.
Print All Order Alphabetically Newest First Oldest First	Specifies the order in which held and confidential jobs are printed when Print All is selected **Notes:** • Alphabetically is the factory default setting. • Print jobs always appear in alphabetical order on the printer control panel.

Finishing menu

Menu item	Description
Sides (Duplex) 2 sided 1 sided	Specifies whether duplex (2-sided) printing is set as the default for all print jobs **Notes:** • 1 sided is the factory default setting. • To set 2-sided printing from the software program: for Windows users, click **File > Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**; for Macintosh users, choose **File** > **Print**, and then adjust the settings from the Print dialog and pop-up menus.
Duplex Binding Long Edge Short Edge	Defines the way duplexed pages are bound and how the printing on the back of the page is oriented in relation to the printing on the front of the page **Notes:** • Long Edge is the factory default setting. • Long Edge specifies that binding be placed on the left edge of portrait pages and the top edge of landscape pages. • Short Edge specifies that binding be placed on the top edge of portrait pages and the left edge of landscape pages.
Copies 1–999	Specifies a default number of copies for each print job **Note:** 1 is the factory default setting.
Blank Pages Do Not Print Print	Specifies whether blank pages are inserted in a print job **Note:** Do Not Print is the factory default setting.
Collate Off (1,1,1,2,2,2) On (1,2,1,2,1,2)	Stacks the pages of a print job in sequence when printing multiple copies **Notes:** • Off is the factory default setting. No pages will be collated. • The On setting stacks the print job sequentially. • Both settings print the entire job the number of times specified by the Copies menu setting.
Separator Sheets None Between Copies Between Jobs Between Pages	Specifies whether blank separator sheets are inserted **Notes:** • None is the factory default setting. • Between Copies inserts a blank sheet between each copy of a print job if Collation is set to On. If Collation is set to Off, a blank page is inserted between each set of printed pages, such as after all page 1s and after all page 2s. • Between Jobs inserts a blank sheet between print jobs. • Between Pages inserts a blank sheet between each page of the print job. This setting is useful when printing transparencies or inserting blank pages in a document for notes.

Menu item	Description
Separator Source Tray <x> Multi-Purpose Feeder	Specifies the paper source for separator sheets **Notes:** • Tray 1 (standard tray) is the factory default setting. • From the Paper menu, Configure MP must be set to Cassette in order for Multi-Purpose Feeder to appear as a menu setting.
N-up (pages-side) Off 2-Up 3-Up 4-Up 6-Up 9-Up 12-Up 16-Up	Specifies that multiple-page images be printed on one side of a sheet of paper **Notes:** • Off is the factory default setting. • The number selected is the number of page images that will print per side.
N-up Ordering Horizontal Reverse Horizontal Reverse Vertical Vertical	Specifies the positioning of multiple-page images when using N-up (pages-sides) **Notes:** • Horizontal is the factory default setting. • Positioning depends on the number of images and whether the images are in portrait or landscape orientation.
Orientation Auto Landscape Portrait	Specifies the orientation of a multiple-page sheet **Notes:** • Auto is the factory default setting. The printer chooses between portrait and landscape. • Landscape uses Long Edge. • Portrait uses Short Edge.
N-up Border None Solid	Prints a border around each page image when using N-up (pages-sides) **Note:** None is the factory default setting.

Quality menu

Menu item	Description
Print Resolution 300 dpi 600 dpi 1200 dpi 1200 IQ 2400 IQ	Specifies the printed output resolution **Note:** 600 dpi is the factory default setting.

Menu item	Description
Toner Darkness 1–10	Lightens or darkens the printed output **Notes:** • 8 is the factory default setting. • Selecting a smaller number can help conserve toner.
Enhance Fine Lines On Off	Enables a print mode preferable for files such as architectural drawings, maps, electrical circuit diagrams, and flow charts **Notes:** • Off is the factory default setting. • To set Enhance Fine Lines from the software program: for Windows users, click **File** > **Print**, and then click **Properties**, **Preferences**, **Options**, or **Setup**, and change the settings from the Print Quality tab; for Macintosh users, choose **File** > **Print**, and then adjust the settings from the Print dialog and pop-up menus. • To set Enhance Fine Lines using the Embedded Web Server, type the network printer IP address in a browser window, and from Print Settings, click **Quality Menu**.
Gray Correction Auto Off	Automatically adjusts the contrast enhancement applied to images **Note:** Auto is the factory default setting.
Pixel Boost Off Fonts Horizontally Vertically Both Directions	Enables more pixels to print in clusters for clarity, in order to enhance pictures horizontally or vertically, or to enhance fonts **Note:** Off is the factory default setting.
Brightness -6–6	Adjusts the printed output either by lightening or darkening it. You can conserve toner by lightening the output. **Note:** 0 is the factory default setting.
Contrast 0–5	Adjusts the contrast of printed objects **Note:** 0 is the factory default setting.

Utilities menu

<table>
<tr><th>Menu item</th><th>Description</th></tr>
<tr><td>Format Flash
Yes
No</td><td>Formats the flash memory. Flash memory refers to the memory added by installing an optional flash memory card in the printer.
Warning—Potential Damage: Do not turn off the printer while the flash memory is formatting.
Notes:
• An optional flash memory card must be installed in the printer and operating properly for this menu item to be available. The flash memory card must not be Read/Write or Write protected or defective.
• No cancels the format request.
• Yes deletes all data stored in flash memory.</td></tr>
<tr><td>Defragment Flash
No
Yes</td><td>Prepares the flash memory to receive new data by retrieving lost storage space
Warning—Potential Damage: Do not turn off the printer while the flash memory is defragmenting.
Notes:
• This setting appears only on non-APA models.
• An optional flash memory card must be installed in the printer and operating properly for this menu item to be available. The flash memory card must not be Read/Write or Write protected or defective.
• No cancels the defragment request.
• Yes reformats the flash memory after transferring all downloads to regular printer memory. When formatting is complete, the downloads are loaded back into flash memory.</td></tr>
<tr><td>Hex Trace
Activate</td><td>Assists in isolating the source of a print job problem
Notes:
• When Activate is selected, all data sent to the printer is printed in hexadecimal, and character representation and control codes are not executed.
• To exit Hex Trace, turn the printer off or reset the printer.</td></tr>
<tr><td>Coverage Estimator
Off
On</td><td>Provides an estimate of the percentage coverage of black toner on a page. The estimate is printed on a separator page.
Note: Off is the factory default setting.</td></tr>
</table>

XPS menu

<table>
<tr><th>Menu item</th><th>Description</th></tr>
<tr><td>Print Error Pages
Off
On</td><td>Prints a page containing information on errors, including XML markup errors
Note: Off is the factory default setting.</td></tr>
</table>

PDF menu

Menu item	Description
Scale to Fit Yes No	Scales page content to fit the selected paper size **Note:** No is the factory default setting.
Annotations Do Not Print Print	Prints annotations in a PDF **Note:** Do Not Print is the factory default setting.

PostScript menu

Menu item	Description
Print PS Error On Off	Prints a page containing the PostScript error **Note:** Off is the factory default setting.
Font Priority Resident Flash	Establishes the font search order **Notes:** • Resident is the factory default setting. • A formatted optional flash memory card must be installed in the printer and operating properly for this menu item to be available. • The optional flash memory card cannot be Read/Write, Write, or password protected. • Job Buffer Size must not be set to 100%.

PCL Emul menu

Menu item	Description
Font Source Resident Download Flash All	Specifies the set of fonts available **Notes:** • Resident is the factory default setting. It shows the factory default set of fonts downloaded into RAM. • Download appears only if downloaded fonts exist. It shows all the fonts downloaded into RAM. • Flash appears only if an optional flash memory card containing fonts is installed. • An optional flash memory card must be properly formatted and cannot be Read/Write, Write, or password protected. • All shows all fonts available to any option.
Font Name <list of fonts>	Lets you view or change the setting from a selection list

Menu item	Description
Symbol Set <list of symbol sets>	Lets you view or change the setting from a selection list
PCL Emulation Settings Point Size 1.00–1008.00	Changes the point size for scalable typographic fonts **Notes:** • 12 is the factory default setting. • Point Size refers to the height of the characters in the font. One point equals approximately 1/72 of an inch. • Point sizes can be increased or decreased in 0.25‑point increments.
PCL Emulation Settings Pitch 0.08–100	Specifies the font pitch for scalable monospaced fonts **Notes:** • 10 is the factory default setting. • Pitch refers to the number of fixed‑space characters per inch (cpi). • Pitch can be increased or decreased in 0.01‑cpi increments. • For nonscalable monospaced fonts, the pitch appears on the display but cannot be changed.
PCL Emulation Settings Orientation Portrait Landscape	Specifies the orientation of text and graphics on the page **Notes:** • Portrait is the factory default setting. • Portrait prints text and graphics parallel to the short edge of the page. • Landscape prints text and graphics parallel to the long edge of the page.
PCL Emulation Settings Lines per Page 1–255	Specifies the number of lines that print on each page **Notes:** • 60 is the US factory default setting. 64 is the international factory default setting. • The printer sets the amount of space between each line based on the Lines per Page, Paper Size, and Orientation settings. Select the desired Paper Size and Orientation before setting Lines per Page.
PCL Emulation Settings A4 Width 198 mm 203 mm	Sets the printer to print on A4‑size paper **Notes:** • 198 mm is the factory default setting. • The 203‑mm setting sets the width of the page to allow the printing of eighty 10‑pitch characters.
PCL Emulation Settings Auto CR after LF On Off	Specifies whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command **Note:** Off is the factory default setting.

Menu item	Description
PCL Emulation Settings Auto LF after CR On Off	Specifies whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command **Note:** Off is the factory default setting.
Tray Renumber Assign MP Feeder Off None 0–199 Assign Tray <x> Off None 0–199 Assign Manual Paper Off None 0–199 Assign Man Env Off None 0–199	Configures the printer to work with printer software or programs that use different source assignments for trays, drawers, and feeders **Notes:** • Off is the factory default setting. • None is not an available selection. It is displayed only when it is selected by the PCL 5 interpreter. • None ignores the Select Paper Feed command. • 0–199 allows a custom setting to be assigned.
Tray Renumber View Factory Def Multipurpose feeder default = 8 Tray 1 default = 1 Tray 2 default = 4 Tray 3 default = 5 Tray 4 default = 20 Tray 5 default = 21 Envelope default = 6 Manual paper default = 2 Manual envelope default = 3	Lets you view the factory default setting assigned to each tray, drawer, or feeder **Note:** The factory default settings appear even if the source is not installed.
Tray Renumber Restore Defaults Yes No	Returns all tray, drawer, and feeder assignments to the factory default settings

HTML menu

Menu item		Description
Font Name Albertus MT Antique Olive Apple Chancery Arial MT Avant Garde Bodoni Bookman Chicago Clarendon Cooper Black Copperplate Coronet Courier Eurostile Garamond Geneva Gill Sans Goudy Helvetica Hoefler Text	Intl CG Times Intl Courier Intl Univers Joanna MT Letter Gothic Lubalin Gothic Marigold MonaLisa Recut Monaco New CenturySbk New York Optima Oxford Palatino StempelGaramond Taffy Times TimesNewRoman Univers Zapf Chancery	Sets the default font for HTML documents **Note:** The Times font will be used in HTML documents that do not specify a font.

Menu item	Description
Font Size 1–255 pt	Sets the default font size for HTML documents **Notes:** • 12 pt is the factory default setting. • Font size can be increased in 1-point increments.
Scale 1–400%	Scales the default font for HTML documents **Notes:** • 100% is the factory default setting. • Scaling can be increased in 1% increments.
Orientation Portrait Landscape	Sets the page orientation for HTML documents **Note:** Portrait is the factory default setting.
Margin Size 8–255 mm	Sets the page margin for HTML documents **Notes:** • 19 mm is the factory default setting. • Margin size can be increased in 1-mm increments.

Menu item	Description
Backgrounds Do Not Print Print	Specifies whether to print backgrounds on HTML documents **Note:** Print is the factory default setting.

Image menu

Menu item	Description
Auto Fit On Off	Selects the optimal paper size, scaling, and orientation **Notes:** • On is the factory default setting. • The On setting overrides scaling and orientation settings for some images.
Invert On Off	Inverts bi-tonal monochrome images **Notes:** • Off is the factory default setting. • The font size can be increased in 1-point increments. • This setting does not apply to GIF or JPEG images.
Scaling Anchor Top Left Best Fit Anchor Center Fit Height/Width Fit Height Fit Width	Scales the image to fit the selected paper size **Notes:** • Best Fit is the factory default setting. • When Auto Fit is set to On, Scaling is automatically set to Best Fit.
Orientation Portrait Landscape Rev Portrait Rev Landscape	Sets the image orientation **Note:** Portrait is the factory default setting.

Maintaining the printer

Periodically, certain tasks are required to maintain optimum print quality.

Cleaning the exterior of the printer

1 Make sure that the printer is turned off and unplugged from the wall outlet.

CAUTION—SHOCK HAZARD: To avoid the risk of electric shock when cleaning the exterior of the printer, unplug the power cord from the wall outlet and disconnect all cables to the printer before proceeding.

2 Remove all paper from the printer.

3 Dampen a clean, lint‑free cloth with water.

Warning—Potential Damage: Do not use household cleaners or detergents, as they may damage the finish of the printer.

4 Wipe only the outside of the printer.

Warning—Potential Damage: Using a damp cloth to clean the interior may cause damage to your printer.

5 Make sure all areas of the printer are dry before beginning a new print job.

Storing supplies

Choose a cool, clean storage area for the printer supplies. Store supplies right side up in their original packing until you are ready to use them.

Do not expose supplies to:

- Direct sunlight
- Temperatures above 35°C (95°F)
- High humidity above 80%
- Salty air
- Corrosive gases
- Heavy dust

Checking the status of supplies from a network computer

Note: The computer must be connected to the same network as the printer.

1 Type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, print a network setup page and locate the IP address in the TCP/IP section.

2 Click **Device Status**. The Device Status page appears, displaying a summary of supply levels.

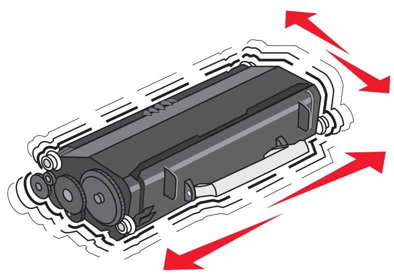
Ordering supplies

To order supplies in the U.S., contact Lexmark at 1-800-539-6275 for information about Lexmark authorized supplies dealers in your area. In other countries or regions, visit the Lexmark Web Site at **www.lexmark.com** or contact the place where you purchased the printer.

Ordering toner cartridges

When `88 Cartridge low` appears or when the print becomes faded, you may be able to extend the life of the toner cartridge:

1. Remove the toner cartridge.
2. Firmly shake the cartridge side-to-side and front-to-back several times to redistribute toner.



3. Reinsert the cartridge and continue printing.

Note: Repeat this procedure multiple times until the print remains faded, and then replace the cartridge.

Recommended toner cartridges and part numbers

Part name	Lexmark Return Program Cartridge	Regular cartridge
For the US and Canada		
Toner cartridge	E260A11A	E260A21A
High Yield Toner Cartridge	E360H11A	E360H21A
Extra High Yield Toner Cartridge	E462U11A	E462U21G
For Europe, the Middle East, and Africa		
Toner cartridge	E260A11E	E260A21E
High Yield Toner Cartridge	E360H11E	E360H21E
Extra High Yield Toner Cartridge	E462U11E	E462U21G
For the Asia Pacific Region, including Australia and New Zealand		
Toner cartridge	E260A11P	E260A21P
High Yield Toner Cartridge	E360H11P	E360H21P
Extra High Yield Toner Cartridge	E462U11P	E462U21G
For Latin America		
Toner cartridge	E260A11L	E260A21L
High Yield Toner Cartridge	E360H11L	E360H21L

Part name	Lexmark Return Program Cartridge	Regular cartridge
Extra High Yield Toner Cartridge	E462U11L	E462U21G

Ordering a photoconductor kit

The printer issues a message to let you know the photoconductor kit is near its end of life. At this time, order a photoconductor kit. You can also see the status of the photoconductor kit by printing a network setup page.

Part name	Part number
Photoconductor kit	E260X22G

Ordering a maintenance kit

80 Routine maintenance needed appears on the display after 120,000 pages have printed to let you know it is time to replace printer maintenance items. Order a maintenance kit when this message first appears. The maintenance kit contains all the items necessary to replace the fuser and transfer roller.

Notes:

- The maintenance kit may not be available in all geographies.
- Using certain types of paper or specialty media may require more frequent replacement of the maintenance kit.

See the following table for the maintenance kit part number for your printer:

Part name	Part number
Maintenance kit	40X5402 (100 V)* 40X5400 (115 V) 40X5401 (230 V)
* Designed for use only in Japan	

Replacing supplies

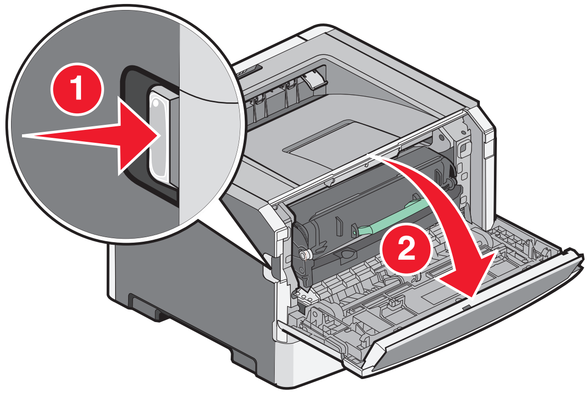
Replacing the toner cartridge

When **88 Cartridge low** appears, or when you experience faded print, remove the toner cartridge. Firmly shake it side-to-side and front-to-back several times to redistribute the toner, and then reinsert it and continue printing. When shaking the cartridge no longer improves the print quality, replace the toner cartridge.

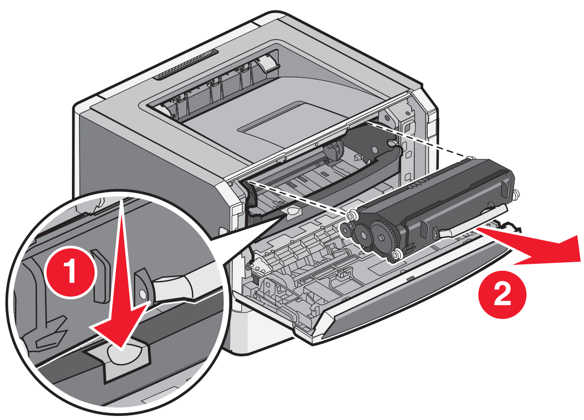
Note: You can check to see approximately how much toner is left in your cartridge by printing a menu settings page.

To replace the toner cartridge:

1 Open the front door by pressing the button on the left side of the printer and lowering the door.



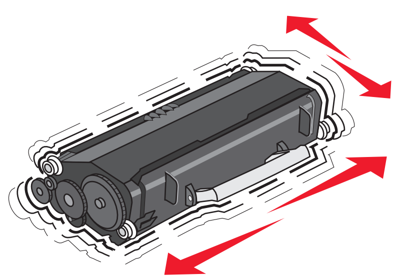
2 Press the button on the base of the photoconductor kit, and then pull the toner cartridge out using the handle.



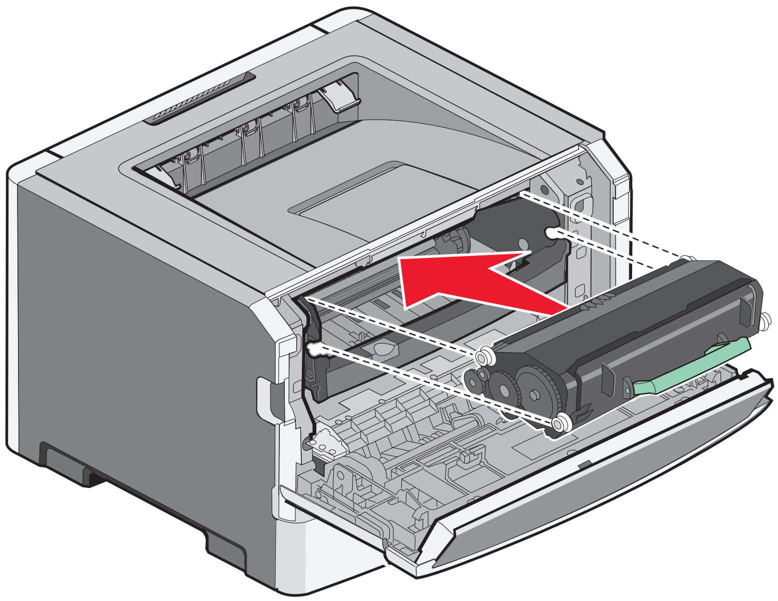
3 Unpack the new toner cartridge.

Warning—Potential Damage: When replacing a toner cartridge, do not leave the photoconductor kit exposed to direct light for an extended period of time. Extended light exposure can cause print quality problems.

4 Rotate the cartridge in all directions to distribute the toner.



5 Install the new toner cartridge by aligning the rollers on the toner cartridge with the arrows on the tracks of the photoconductor kit. Push the toner cartridge in as far as it will go. The cartridge *clicks* into place when correctly installed.



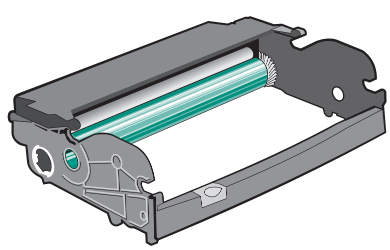
6 Close the front door.

Replacing the photoconductor kit

The printer automatically notifies you before the photoconductor kit reaches a page maximum by showing **`84 PC Kit life warning`** or **`84 Replace PC Kit`** on the display. You can also see the status of the photoconductor kit by printing a menu settings page.

When **`84 PC Kit life warning`** or **`84 Replace PC Kit`** first appears, you should immediately order a new photoconductor kit. While the printer may continue to function properly after the photoconductor kit has reached its official end-of-life, print quality significantly decreases.

Note: The photoconductor kit is one item only.

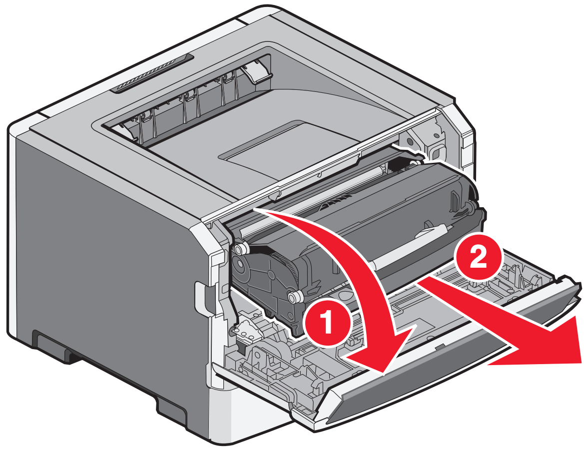


1 Turn the printer off.

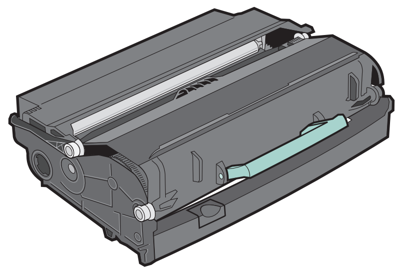
2 Open the front door by pressing the button on the left side of the printer and lowering the front door.

3 Pull the photoconductor kit and toner cartridge out of the printer as a unit by pulling on the toner cartridge handle.

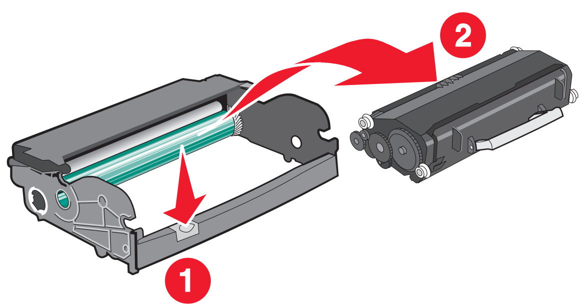
Note: The photoconductor kit and toner cartridge form a unit.



Place the unit on a flat, clean surface.

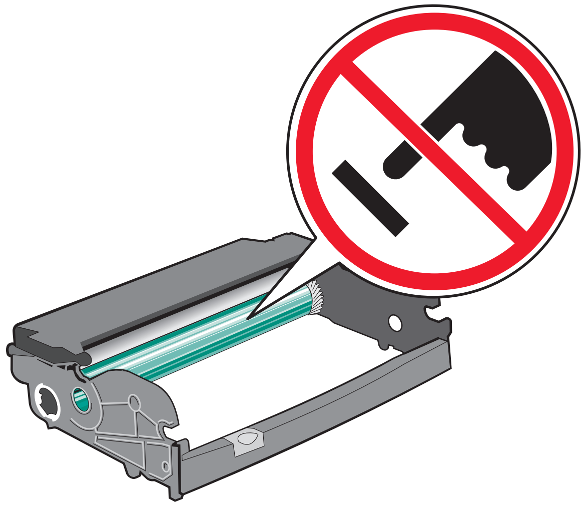


4 Press the button on the base of the photoconductor kit. Pull the toner cartridge up and out using the handle.

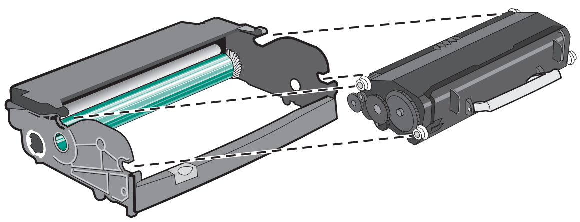


5 Unpack the new photoconductor kit.

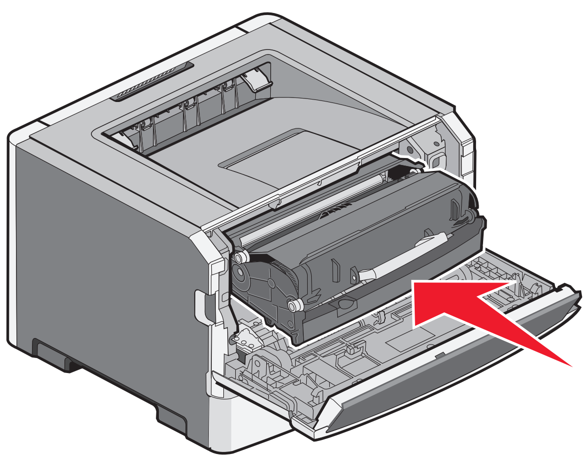
Warning—Potential Damage: Be careful not to touch the photoconductor drum. Doing so may affect the print quality of future print jobs.



6 Insert the toner cartridge into the photoconductor kit by aligning the rollers on the toner cartridge with the tracks. Push the toner cartridge until it *clicks* into place.



7 Install the unit into the printer by aligning the arrows on the guides of the unit with the arrows in the printer. Push the unit as far as it will go.



8 After you replace the photoconductor kit, reset the photoconductor counter.

To reset the photoconductor counter, open the front door, press and hold ❌ until `Resetting PC Counter` appears. The power light blinks, and the printer beeps.

Warning—Potential Damage: Resetting the photoconductor counter without replacing the photoconductor may damage your printer and void your warranty.

9 Close the front door.

Moving the printer

Moving the printer to another location

⚠ **CAUTION—POTENTIAL INJURY:** The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to lift it safely.

⚠ **CAUTION—POTENTIAL INJURY:** Before moving the printer, follow these guidelines to avoid personal injury or printer damage:

- Turn the printer off using the power switch, and then unplug the power cord from the wall outlet.
- Disconnect all cords and cables from the printer before moving it.
- Lift the printer off of the optional drawer and set it aside instead of trying to lift the drawer and printer at the same time.

Note: Use the handholds located on both sides of the printer to lift it off the optional drawer.

The printer and options can be safely moved to another location by following these precautions:

- Any cart used to move the printer must have a surface able to support the full footprint of the printer. Any cart used to move the options must have a surface able to support the dimensions of the options.
- Keep the printer in an upright position.
- Avoid severe jarring movements.

Shipping the printer

When shipping the printer, use the original packaging or call the place of purchase for a relocation kit.

Administrative support

Finding advanced networking and administrator information

This chapter covers basic administrative support tasks. For more advanced system support tasks, see the *Networking Guide* on the *Software and Documentation* CD and the *Embedded Web Server Administrator's Guide* on the Lexmark Web site at **www.lexmark.com.**

Using the Embedded Web Server

If the printer is installed on a network, the Embedded Web Server is available for a range of functions including:

- Viewing a virtual display of the printer control panel
- Checking the status of the printer supplies
- Configuring printer settings
- Configuring network settings
- Viewing reports

To access the Embedded Web Server, type the printer IP address into the address field of your Web browser.

Notes:

- If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.
- For more information, see the *Networking Guide* on the *Software and Documentation* CD and the *Embedded Web Server Administrator's Guide* on the Lexmark Web site at **www.lexmark.com**.

Checking the virtual display

When the Embedded Web Server is open, a virtual display appears in the top left corner of the screen. It works as an actual display would work on a printer control panel, showing printer messages.

To access the Embedded Web Server, type the printer IP address into the address field of your Web browser.

Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

The virtual display appears in the top left corner of the screen.

Checking the device status

Using the Embedded Web Server, you can view paper tray settings, the level of toner in the print cartridge, the percentage of life remaining in the maintenance kit, and capacity measurements of certain printer parts. To view the device status:

1. Type the printer IP address in the address field of your Web browser.

   Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

2. Click **Device Status**.

Viewing reports

You can view some reports from the Embedded Web Server. These reports are useful for assessing the status of the printer, the network, and supplies.

To view reports from a network printer:

1. Type the printer IP address into the address field of your Web browser.

   Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

2. Click **Reports**, and then click the type of report you want to view.

Configuring supply notifications

You can determine how you would like to be notified when supplies run low or reach their end‑of‑life.

To configure supply notifications using the Embedded Web Server:

1. Type the printer IP address into the address field of your Web browser.

   Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

2. Click **Settings**.
3. Click **Print Settings**.
4. Click **Supply Notifications**.
5. From the drop‑down box for each supply, select among the options for notification. Explanations for each option are provided.
6. Click **Submit** to save your selections.

Modifying confidential print settings

You can modify confidential print settings using the Embedded Web Server. You can set a maximum number of PIN entry attempts. When a user exceeds a specific number of PIN entry attempts, all of the jobs for that user are deleted.

You can set an expiration time for confidential print jobs. When a user has not printed the jobs within the designated time period, all of the jobs for that user are deleted.

Note: This functionality is available only on network printers.

To modify the confidential print settings:

1. Type the printer IP address into the address field of your Web browser.

   Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

2. Click **Settings**.
3. Under Other Settings, click **Security**.
4. Click **Confidential Print Setup**.

Setting up e-mail alerts

You can have the printer send you an e-mail when the supplies are getting low or when the paper needs to be changed, added, or unjammed.

To set up e-mail alerts:

1. Type the printer IP address into the address field of your Web browser.

   Note: If you do not know the IP address of the printer, then print a network setup page and locate the IP address in the TCP/IP section.

2. Click **Settings**.
3. Under Other Settings, click **E-mail Alert Setup**.
4. Select the items for notification, and type in the e-mail addresses.
5. Click **Submit**.

Note: See your system support person to set up the e-mail server.

Restoring the factory default settings

If you want to retain a list of the current menu settings for reference, then print a menu settings page before you restore the factory default settings. For more information, see “Printing a menu settings page” on page 28.

Warning—Potential Damage: Restoring factory defaults returns most printer settings to the original factory default setting. Exceptions include the display language, custom sizes and messages, and Network/Port menu settings. All downloads stored in RAM are deleted. Downloads stored in flash memory or on a printer hard disk are not affected.

1. From the printer control panel, press .
2. Press the up or down arrow button until `√Settings` appears, and then press .
3. Press the up or down arrow button until `√General Settings` appears, and then press .

4 Press the up or down arrow button until √**`Factory Defaults`** appears, and then press ✓.

5 Press the up or down arrow button until √**`Restore Now`** appears, and then press ✓.

`Restoring Factory Defaults` appears.

Clearing jams

By carefully selecting paper and specialty media and loading it properly, you should be able to avoid most jams. For more information, see “Avoiding jams” on page 123. If jams do occur, follow the steps outlined in this chapter.

Warning—Potential Damage: Never use any tool to remove a jam. Doing so could permanently damage the fuser.

To resolve jam messages, you must clear the entire paper path, and then press ✓ to clear the message and resume printing. The printer prints a new copy of the page that jammed if Jam Recovery is set to On or Auto; however, the Auto setting does not guarantee the page will print.

Note: Auto is the Jam recovery factory default setting. The printer reprints jammed pages unless the memory required to hold the pages is needed for other printer tasks.

Avoiding jams

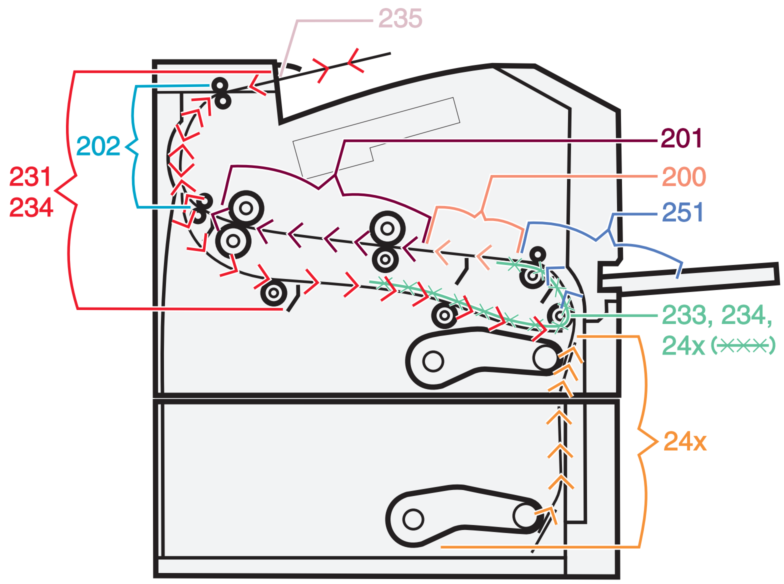
The following hints can help you avoid jams:

- Use only recommended paper or specialty media. For more information, see “Supported paper sizes, types, weights, and capacities” on page 60.
- Do not load too much paper. Make sure the stack height does not exceed the indicated maximum height.
- Do not load wrinkled, creased, damp, bent, or curled paper.
- Flex, fan, and straighten paper before loading it.
- Do not use paper that has been cut or trimmed by hand.
- Do not mix paper sizes, weights, or types in the same stack.
- Do not feed envelopes that:
  - Have excessive curl or twist
  - Have windows, holes, perforations, cutouts, or embossing
  - Have metal clasps, string ties, or folding bars
  - Have an interlocking design
  - Have postage stamps attached
  - Have any exposed adhesive when the flap is in the sealed or closed position
  - Have bent corners
  - Have rough, cockle, or laid finishes
  - Are stuck together or damaged in any way
- Store the paper in an appropriate environment.
- Do not remove trays while the printer is printing.
- Do not load the multipurpose feeder while the printer is printing. Load the multipurpose feeder prior to printing, or wait for a prompt to load it.
- Push all trays in firmly after loading paper.
- Make sure the guides in the trays are properly positioned and are not pressing too tightly against the paper.
- Make sure all sizes and types are set correctly in the printer control panel menu.
- Make sure all printer cables are attached correctly. For more information, see the setup documentation.

Identifying jams in the paper path

The following illustration shows the path that paper travels through the printer. The path varies depending on the input source (tray or feeder) and depending on whether a duplex (two-sided) print job is being sent.

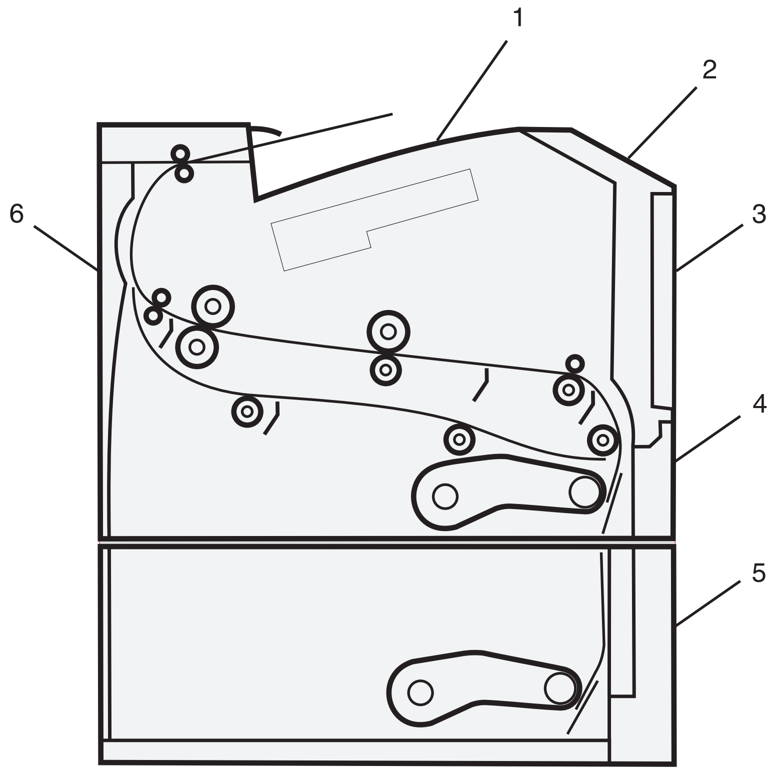
When a jam occurs, a jam message appears, indicating the region of the jam or the number of jammed sheets. The three-digit jam prefix numbers are given in the following illustration to show where each jam occurs.



Understanding jam messages and locations

Note: To resolve any message, all paper or specialty media must be cleared from the entire paper path.

Open doors and covers, and remove trays to access jam locations. The following illustration and table indicate these locations. See "Jam message numbers and how to access each jam" on page 125 for a list of jam numbers and instructions for how to access each jam.



1	Standard exit bin
2	Front door
3	Multipurpose feeder door
4	Tray 1
5	Tray 2
6	Rear door

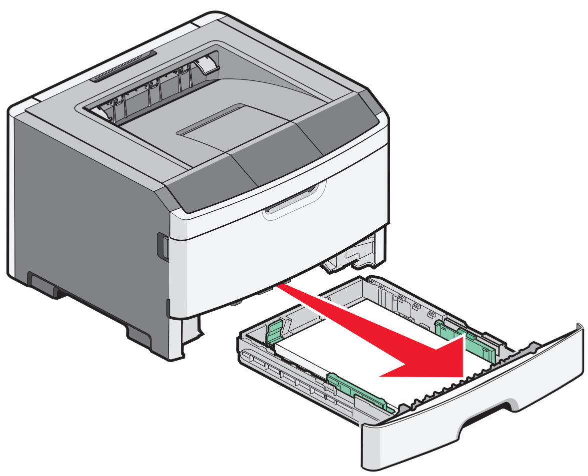
Jam message numbers and how to access each jam

Jam number	To access the jam
200	Try one or more of the following: • Remove Tray 1. • Open the front door, and then remove the photoconductor kit.
201	Open the front door, and then remove the photoconductor kit.
202	Open the front door, and then open the rear door.
231	Open the front door, and then open the rear door. **Note:** For alternative access to the jam, remove Tray 1, and then depress the lever.
233	Remove Tray 1, and then depress the lever. **Note:** For alternative access to the jam, open the front door, and then open the rear door.

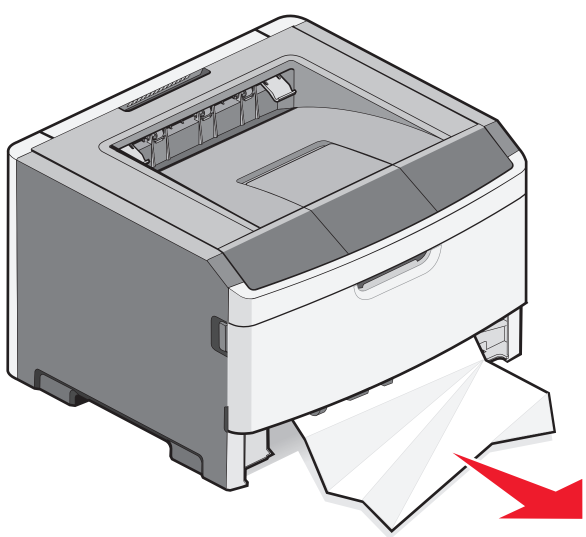
Jam number	To access the jam
234	Try one or more of the following: • Open the front door, and then open the rear door. • Remove Tray 1, and then depress the lever.
235	Remove the jam from the standard exit bin.
24x	Remove Tray 2.
251	Try one or more of the following: • If the sheet is visible in the multipurpose feeder, gently pull it from the front of the multipurpose feeder. • If it is not visible, open the front door, and then remove the unit. Lift the flap at the front of the printer, and then remove any jammed sheets.

200 paper jam

1 Remove the tray from the printer.

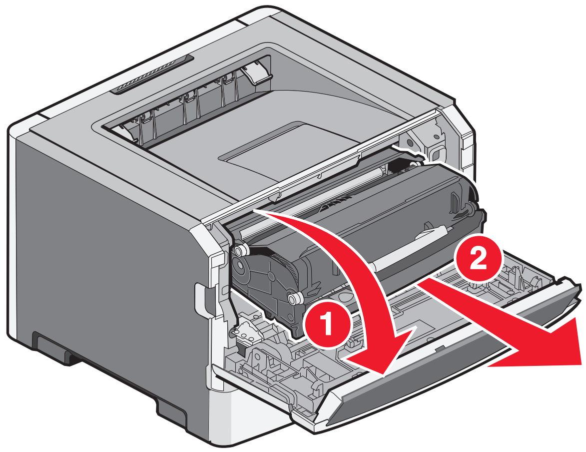


2 Remove the jam if you see it here.

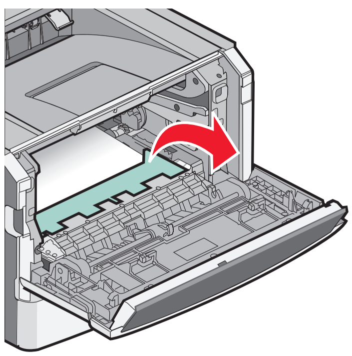


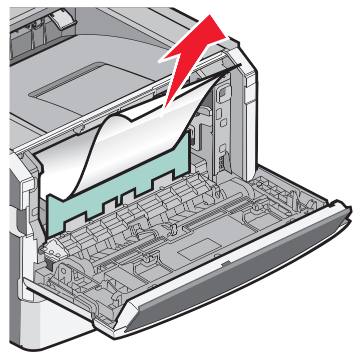
3 If you do not see it, open the front door, and then remove the photoconductor kit and toner cartridge (unit).

Note: When the photoconductor kit and toner cartridge are together, they are called a unit.



4 Lift the flap in front of the printer, and remove any jammed sheets.





5 Align and insert the unit.

6 Close the front door.

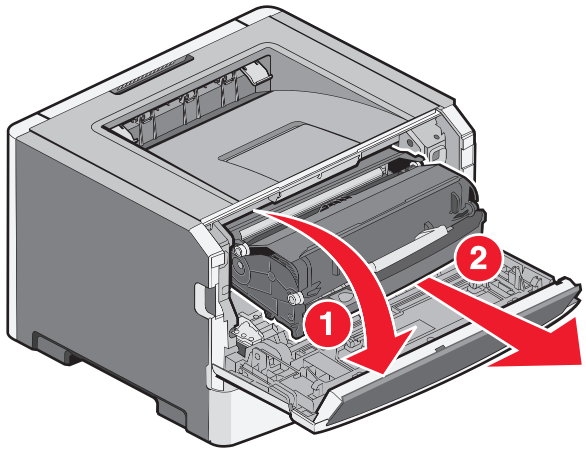
7 Insert the tray.

8 Press ✓.

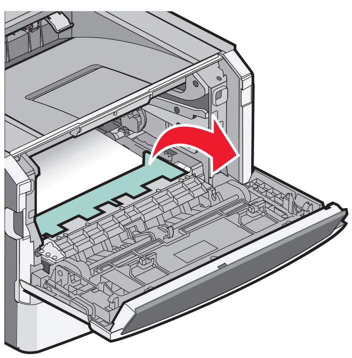
201 paper jam

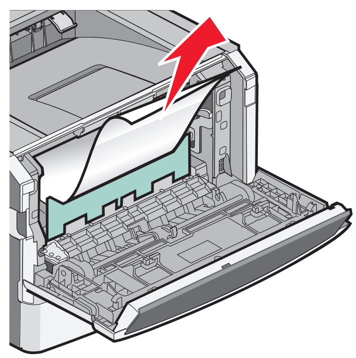
CAUTION—HOT SURFACE: The fuser and the inside of the printer near the fuser may be hot. To reduce the risk of injury from a hot component, allow the surface to cool before removing paper from this area.

1 Open the front door, and then remove the unit.



2 Lift the flap in front of the printer, and then remove any jammed sheets.





3 Align and insert the unit.

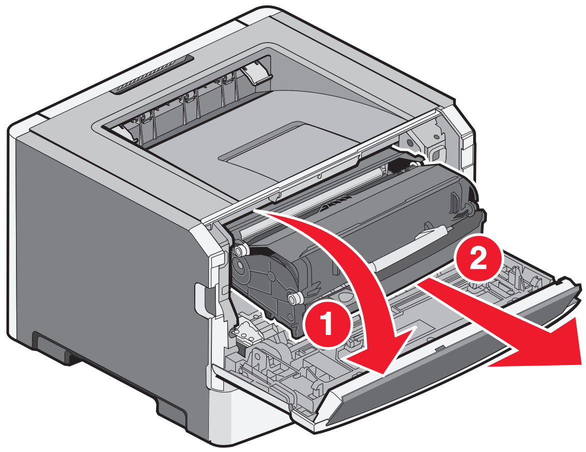
4 Close the front door.

5 Press ✓.

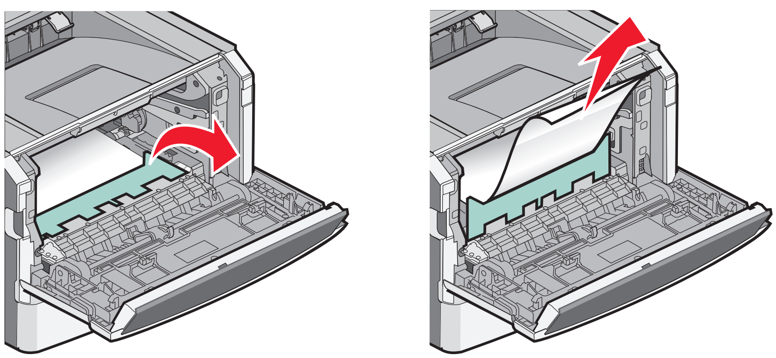
202 paper jam

CAUTION—HOT SURFACE: The fuser and the inside of the printer near the fuser may be hot. To reduce the risk of injury from a hot component, allow the surface to cool before removing paper from this area.

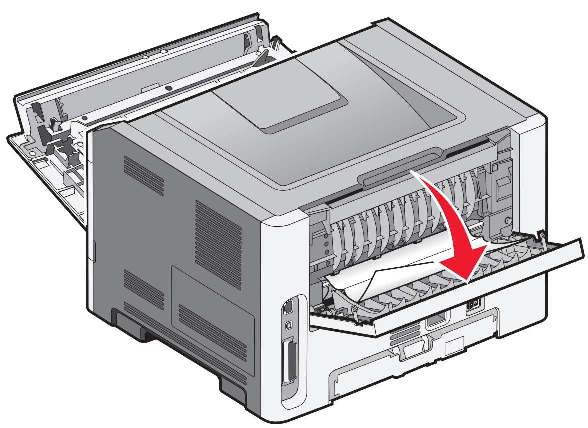
1 Open the front door, and then remove the unit.



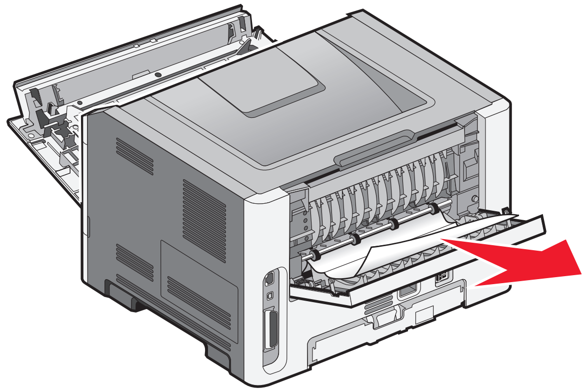
2 Lift the flap in front of the printer, and then remove any jammed sheets.



3 Open the rear door.



4 Remove the jam.



5 Align and insert the unit.

6 Close the rear door.

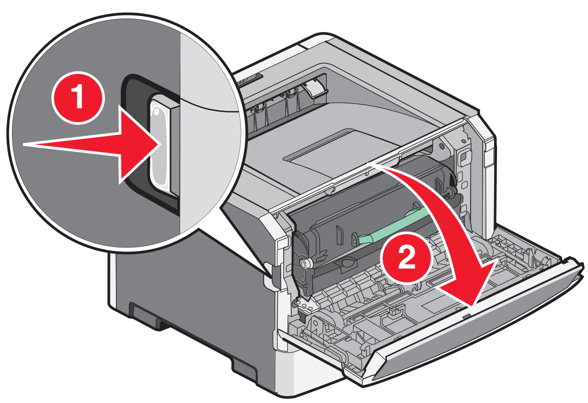
7 Close the front door.

8 Press ✓.

231 paper jam

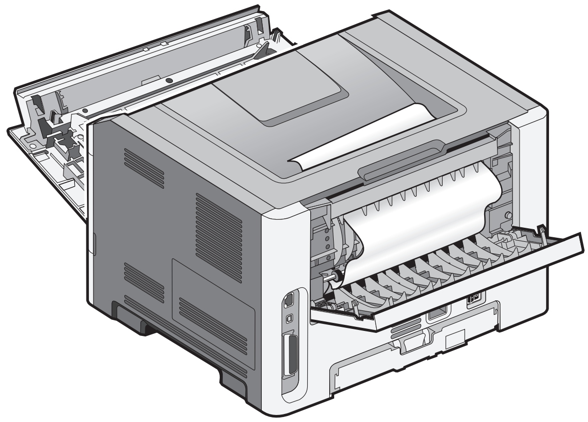
CAUTION—HOT SURFACE: The fuser and the inside of the printer near the fuser may be hot. To reduce the risk of injury from a hot component, allow the surface to cool before removing paper from this area.

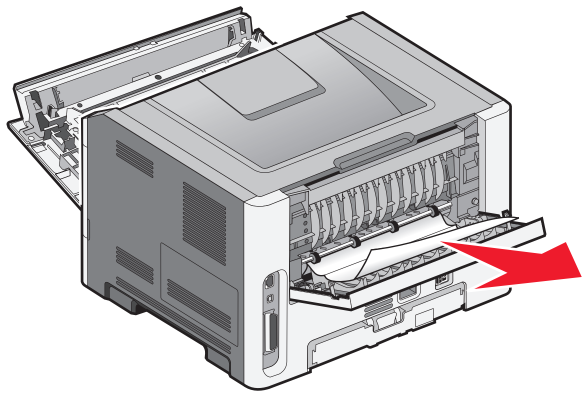
1 Open the front door.



2 Open the rear door.

3 Remove the jam.





4 Close the rear door.

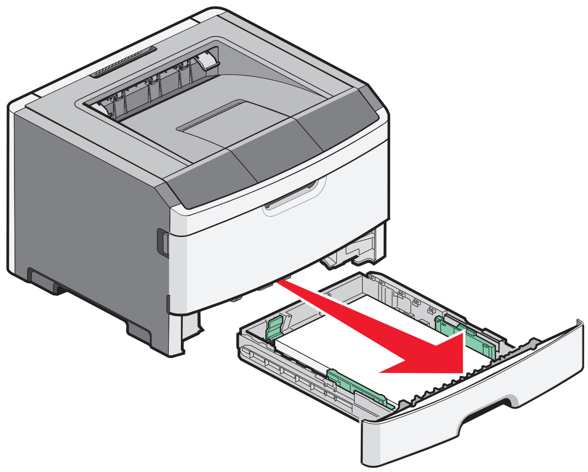
5 Close the front door.

6 Press ✓.

If this does not clear the jam, complete the steps in "233 paper jam" on page 132.

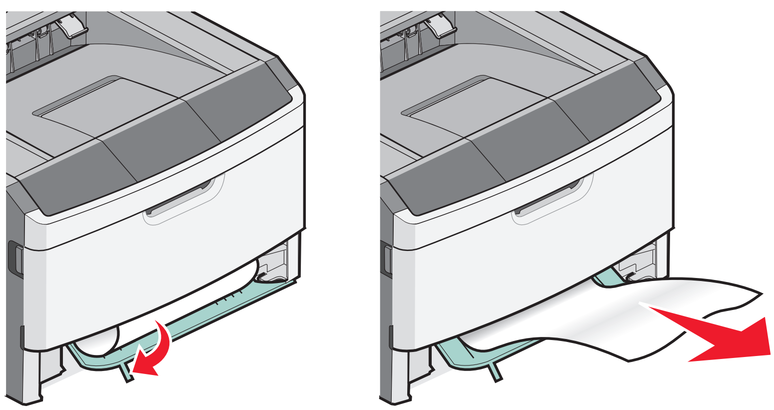
233 paper jam

1 Remove the tray from the printer.



2 Locate the lever shown. Pull the lever down to release the jam.

3 Pull the jammed sheets from the duplex area.



4 Insert the tray.

5 Press ✓.

If this does not clear the jam, complete the steps in “231 paper jam” on page 130.

234 paper jam

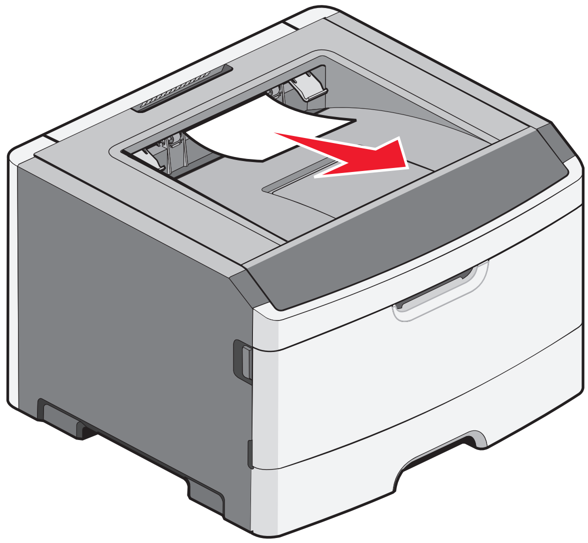
A single jam or multiple jams are in the duplex area of the printer when the printer is turned on. To locate and remove the jammed sheets, complete all the steps in:

- “231 paper jam” on page 130
- “233 paper jam” on page 132

235 paper jam

A duplex print job was sent to the printer using a size of paper not supported for duplex printing. A sheet is jammed in the standard exit bin.

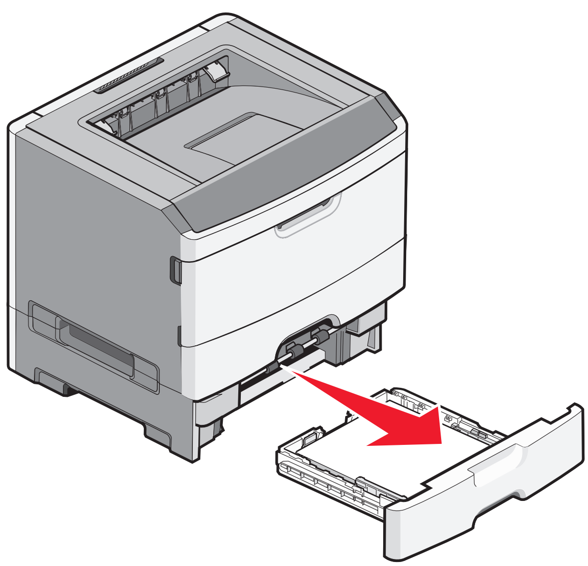
1 To remove the jam, gently pull the jammed sheet out of the standard exit bin.



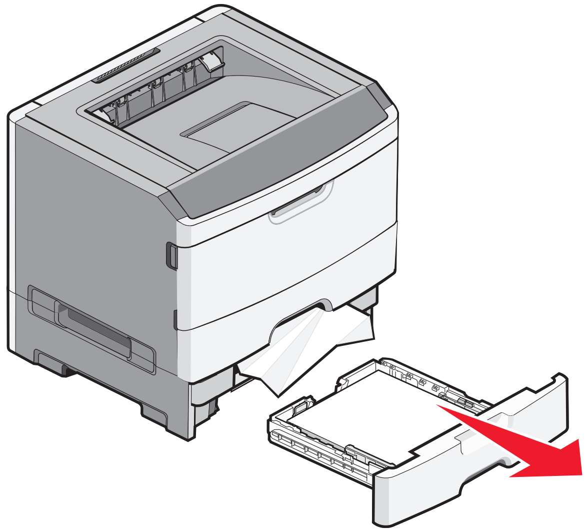
2 Press ✓.

24x paper jam

1 Remove the optional tray from the printer.



2 Remove the jam.

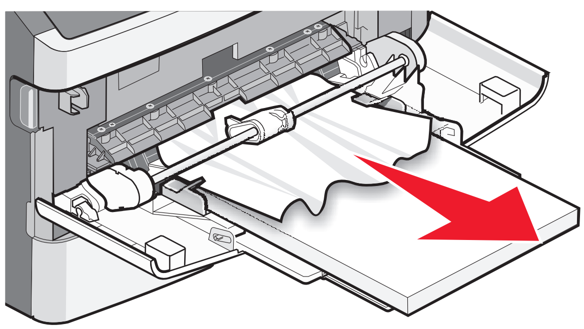


3 Insert the optional tray.

4 Press ✓.

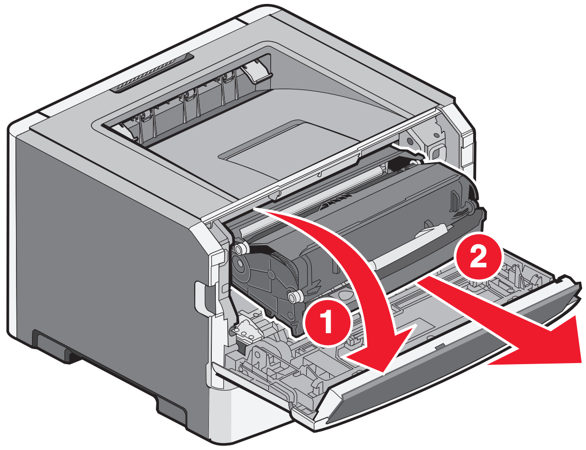
251 paper jam

A sheet of paper or specialty media failed to feed completely from the multipurpose feeder. Part of it may still be visible. If it is visible, gently pull the jammed sheet from the front of the multipurpose feeder.

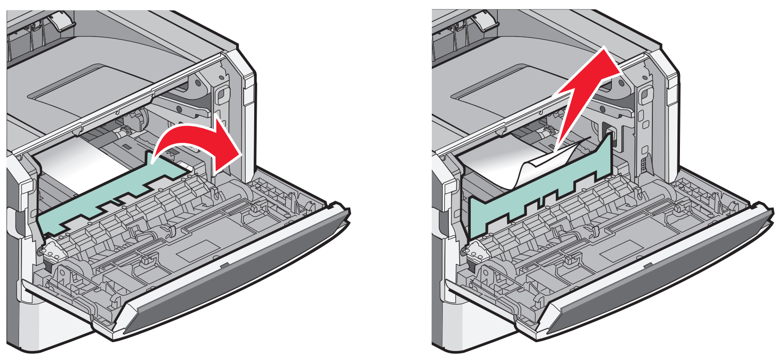


If the sheet is not visible, complete the following steps:

1 Open the front door, and then remove the unit.



2 Lift the flap at the front of the printer, and then remove any jammed sheets of paper that are short lengths of paper.



3 Align and insert the unit.

4 Close the front door.

5 Press ✓.

Troubleshooting

Understanding printer messages

Calibrating

Wait for the message to clear.

Cartridge Life Exceeded

The toner cartridge is exhausted.

1. Remove the used toner cartridge, and then install a new one.
2. Press to clear the message.

Change <src> to <custom type name>

You can change the current paper source for the remainder of the print job. The formatted page will print on the paper loaded in the selected tray. This may cause clipping of text or images. Try one or more of the following:

- To select the paper tray with the correct paper size or type, press the up or down arrow button until **√Paper Changed, Continue** appears, and then press .
- To ignore the message and print from the tray selected for the print job, press the up or down arrow button until **√Use Current <Src>** appears, and then press .
- To cancel the current print job, press the up or down arrow button until **√Cancel job** appears, and then press .
- For more information, press the up or down arrow button until **√Show me** or **√Tell me more** appears, and then press .

Change <src> to <custom string>

You can change the current paper source for the remainder of the print job. The formatted page will print on the paper loaded in the selected tray. This may cause clipping of text or images. Try one or more of the following:

- To select the paper tray with the correct paper size or type, press the up or down arrow button until **√Paper Changed, Continue** appears, and then press .
- To ignore the message and print from the tray selected for the print job, press the up or down arrow button until **√Use Current <Src>** appears, and then press .
- To cancel the current print job, press the up or down arrow button until **√Cancel job** appears, and then press .
- For more information, press the up or down arrow button until **√Show me** or **√Tell me more** appears, and then press .

Change <src> to <size>

You can change the current paper source for the remainder of the print job. The formatted page will print on the paper loaded in the selected tray. This may cause clipping of text or images. Try one or more of the following:

- To select the paper tray with the correct paper size or type, press the up or down arrow button until √**Paper Changed, Continue** appears, and then press √.
- To ignore the message and print from the tray selected for the print job, press the up or down arrow button until √**Use Current <Src>** appears, and then press √.
- To cancel the current print job, press the up or down arrow button until √**Cancel job** appears, and then press √.
- For more information, press the up or down arrow button until √**Show me** or √**Tell me more** appears, and then press √.

Change <src> to <type> <size>

You can change the current paper source for the remainder of the print job. The formatted page will print on the paper loaded in the selected tray. This may cause clipping of text or images. Try one or more of the following:

- To select the paper tray with the correct paper size or type, press the up or down arrow button until √**Paper Changed, Continue** appears, and then press √.
- To ignore the message and print from the tray selected for the print job, press the up or down arrow button until √**Use Current <Src>** appears, and then press √.
- To cancel the current print job, press the up or down arrow button until √**Cancel job** appears, and then press √.
- For more information, press the up or down arrow button until √**Show me** or √**Tell me more** appears, and then press √.

Close front door

Close the front door of the printer.

Load <src> with <custom type name>

Try one or more of the following:

- Load the specified paper into the specified source to clear the message and continue printing.
- To select the paper tray with the correct paper size or type, press the up or down arrow button until √**Paper Changed, Continue** appears, and then press √.
- Cancel the print job. Press the up or down arrow button until √**Cancel job** appears, and then press √.
- For more information, press the up or down arrow button until √**Show me** or √**Tell me more** appears, and then press √.

Load <src> with <custom string>

Try one or more of the following:

- Load the specified paper into the specified source to clear the message and continue printing.
- To select the paper tray with the correct paper size or type, press the up or down arrow button until √**Paper Changed, Continue** appears, and then press (√).
- Cancel the print job. Press the up or down arrow button until √**Cancel job** appears, and then press (√).
- For more information, press the up or down arrow button until √**Show me** or √**Tell me more** appears, and then press (√).

Load <src> with <type> <size>

Try one or more of the following:

- Load the specified paper into the specified source to clear the message and continue printing.
- To select the paper tray with the correct paper size or type, press the up or down arrow button until √**Paper Changed, Continue** appears, and then press (√).
- Cancel the print job. Press the up or down arrow button until √**Cancel job** appears, and then press (√).
- For more information, press the up or down arrow button until √**Show me** or √**Tell me more** appears, and then press (√).

Load <src> with <size>

Try one or more of the following:

- Load the specified paper into the specified source to clear the message and continue printing.
- To select the paper tray with the correct paper size or type, press the up or down arrow button until √**Paper Changed, Continue** appears, and then press (√).
- Cancel the print job. Press the up or down arrow button until √**Cancel job** appears, and then press (√).
- For more information, press the up or down arrow button until √**Show me** or √**Tell me more** appears, and then press (√).

Load Manual Feeder with <custom type name>

Try one or more of the following:

- Load the multipurpose feeder with the correct paper type and size.
- Ignore the request and print on paper that is already being used in one of the trays. Press the up or down arrow button until √**Automatically select paper** appears, and then press (√).

  If the printer finds a tray that has paper of the correct type, then it uses the paper from that tray. If the printer cannot find a tray with the correct paper type, then it prints on the paper that is installed in the default paper source.
- Press the up or down arrow button until √**Cancel job** appears, and then press (√) to cancel the print job.
- For more information, press the up or down arrow button until √**Show me** or √**Tell me more** appears, and then press (√).

Load Manual Feeder with <custom string>

Try one or more of the following:

- Load the multipurpose feeder with the correct paper type and size.
- Ignore the request and print on paper that is already being used in one of the trays. Press the up or down arrow button until √**`Automatically select paper`** appears, and then press (√).

  If the printer finds a tray that has paper of the correct type, then it uses the paper from that tray. If the printer cannot find a tray with the correct paper type, then it prints on the paper that is installed in the default paper source.
- Cancel the print job. Press the up or down arrow button until √**`Cancel job`** appears, and then press (√).
- For more information, press the up or down arrow button until √**`Show me`** or √**`Tell me more`** appears, and then press (√).

Load Manual Feeder with <type> <size>

Try one or more of the following:

- Load the correct paper type and size in the multipurpose feeder.
- Ignore the request and print on paper that is already being used in one of the input sources. Press the up or down arrow button until √**`Automatically select paper`** appears, and then press (√). The current job may not print correctly.

  If the printer finds a source that has paper of the correct type, then it uses the paper from that source. If the printer cannot find a source with the correct paper type, then it prints on the paper that is installed in the default paper source.
- Cancel the print job. Press the up or down arrow button until √**`Cancel job`** appears, and then press (√).
- For more information, press the up or down arrow button until √**`Show me`** or √**`Tell me more`** appears, and then press (√).

Load Manual Feeder with <size>

Try one or more of the following:

- Load the multipurpose feeder with the correct paper size.

  If there is no paper in the multipurpose feeder, then feed a sheet of paper to clear the message.
- Ignore the request and print on paper that is already being used in one of the input sources. Press the up or down arrow button until √**`Automatically select paper`** appears, and then press (√).

  If the printer finds a source that has paper of the correct type, then it uses the paper from that source. If the printer cannot find a source with the correct paper type, then it prints on the paper that is installed in the default paper source.
- Cancel the print job. Press the up or down arrow button until √**`Cancel job`** appears, and then press (√).
- For more information, press the up or down arrow button until √**`Show me`** or √**`Tell me more`** appears, and then press (√).

Remove paper from standard bin

The standard exit bin has reached its capacity. Remove paper from the standard exit bin to clear the message and continue printing.

Remove paper from standard output bin

Remove the stack of paper from the standard exit bin.

Replace Cartridge

The toner cartridge is exhausted.

1. Remove the used toner cartridge, and then install a new one.
2. Press to clear the message.

Replace PC Kit

This is the early warning message for the photoconductor kit. The printer continues printing unless the value for the Cartridge Alarm is changed from the printer control panel or set to On from the Supply Notifications Web page (located on the Embedded Web Server).

If the setting is On, then the printer stops printing. Press to select **`Continue`** and continue printing.

When the **`PC Kit Life Warning`** appears, order a new photoconductor kit.

Resetting the printer

Wait for the message to clear.

Resetting without replacing may affect print quality.

You selected No from the “Verify PC unit replaced” screen. Wait for the message to clear.

Restoring Factory Defaults

Wait for the message to clear.

When factory default settings are restored:

- All downloaded resources in the printer memory are deleted. This includes fonts, macros, and symbol sets.
- All settings return to the factory defaults except the Display Language setting in the Setup menu and the custom settings in the Serial <x>, Network, Infrared, LocalTalk, and USB menus.

Routine maintenance needed

The printer needs to have scheduled maintenance done. Order a maintenance kit, which contains a fuser and a transfer roller. Then contact Customer Support, and report the message.

Standard Bin Full

Remove the stack of paper from the standard exit bin to clear the message.

Stopping

Wait for the message to clear.

Submitting selection

Wait for the message to clear.

Too many failed panel logins

The printer is now in a lockout mode because:

- You attempted to log in too many times with an incorrect PIN
- You attempted to log in using an incorrect password number for access to a printer feature, setting, or menu that you do not have access to.

Note: There is a defined limit on the number of login attempts. Once the limit is reached, this message appears and the printer enters a lockout mode. The message remains on the printer control panel, and any further attempts to enter menus is denied until the defined time out expires. The time out duration is set by your system support person.

Wait for the message to clear once the time out expires, and then:

- Enter the correct PIN to access any held jobs
- See your system support person if you need a password number to enter a specific printer feature, setting, or menu that is blocked from your use without the number.

Tray <x> disabled

The specified tray is disabled from the Disable Hardware menu of the Config menu. To clear the message, enable the specified tray through the same menu. Consult your system support person for help.

Tray <x> Missing

Insert the specified tray into the printer.

30.yy Invalid refill, change cartridge

An unsupported, refilled toner cartridge is installed. Remove the toner cartridge, and then install a new one.

31.yy Replace defective or missing cartridge

The toner cartridge is either missing or not functioning properly.

Try one or more of the following:

- Remove the toner cartridge, and then reinstall it.
- Remove the toner cartridge, and then install a new one.

32.yy Cartridge part number unsupported by device

Remove the toner cartridge, and then install a supported one.

32 Replace unsupported cartridge

Remove the toner cartridge, and then install a supported one.

34 Short paper

Try one or more of the following:

- Load the appropriate paper in the tray.
- Press the up or down arrow button until √`Continue` appears, and then press ✓ to clear the message and print the job using a different paper tray.
- Check tray length and width guides and make sure the paper is properly loaded in the tray.
- For Windows users, check the Print Properties settings to make sure the print job is requesting the correct paper size and type.

  For Macintosh users, check the Print dialog settings to make sure the print job is requesting the correct paper size and type.
- Check that the paper size is correctly set. For example, if the MP Feeder Size is set to Universal, make sure the paper is large enough for the data being printed.
- Cancel the current print job. Press the up or down arrow button until √`Cancel job` appears, and then press ✓.

35 Insufficient memory to support Resource Save feature

The printer lacks sufficient memory to save settings. Install additional memory, or press ✓ to disable Resource Save and continue printing.

37 Insufficient memory for Flash Memory Defragment operation

Try one or more of the following:

- Press the down arrow button until √`Continue` appears, and then press ✓ to stop the defragment operation and continue printing.
- Delete fonts, macros, and other data in printer memory.
- Install additional printer memory.

37 Insufficient memory to collate job

Try one or more of the following:

- Press the down arrow button until √**Continue** appears, and then press ✓ to print the portion of the job already stored and begin collating the rest of the print job.
- Cancel the current print job.

37 Insufficient memory, some Held Jobs were deleted

The printer deleted some held jobs in order to process current jobs. Press the down arrow button until √**Continue** appears, and then press ✓ to clear the message.

38 Memory full

Try one or more of the following:

- Press the up or down arrow button until √**Continue** appears, and then press ✓ to clear the message.
- Cancel the current print job. Press the up or down arrow button until √**Cancel job** appears, and then press ✓.
- Install additional printer memory.

39 Complex page, some data may not have printed

Try one or more of the following:

- Press the up or down arrow button until √**Continue** appears, and then press ✓ to clear the message and continue printing.
- Cancel the current print job. Press the up or down arrow button until √**Cancel job** appears, and then press ✓.
- Install additional printer memory.

42.xy Cartridge region mismatch

Install a toner cartridge that matches the region number of the printer. *x* indicates the value of the printer region. *y* indicates the value of the cartridge region. x and y can have the following values:

1	US and Canada
2	EMEA (Europe, Middle East, Africa)
3	Asia Pacific Region
4	Latin America
9	Undefined region

51 Defective flash detected

- Press the up or down arrow button until √`Continue` appears, and then press ✓ to clear the message and continue printing.
- Cancel the current print job.

52 Not enough free space in flash memory for resources

Try one or more of the following:

- Press the up or down arrow button until √`Continue` appears, and then press ✓ to stop the defragment operation and continue printing.

  Downloaded fonts and macros not previously stored in flash memory are deleted.
- Delete fonts, macros, and other data stored in flash memory.
- Upgrade to a larger capacity flash memory card.

53 Unformatted flash detected

Try one or more of the following:

- Press the up or down arrow button until √`Continue` appears, and then press ✓ to stop the defragment operation and continue printing.
- Format the flash memory. If the error message remains, the flash memory may be defective and require replacing.

54 Standard network software error

Try one or more of the following:

- Press the up or down arrow button until √`Continue` appears, and then press ✓ to clear the message
- Turn the printer off and then back on to reset the printer.
- Upgrade (flash) the network firmware in the printer or print server.

56 Standard parallel port disabled

Try one or more of the following:

- The printer discards any data received through the parallel port. Press ✓ to clear the message and continue printing.
- Make sure the Parallel Buffer menu item is not set to Disabled.

56 Standard USB port disabled

Try one or more of the following:

- The printer discards any data received through the USB port. Press ✓ to clear the message and continue printing.
- Make sure the USB Buffer menu item is not set to Disabled.

58 Too many flash options installed

Try one or more of the following:

- Turn the printer off, and then remove extra flash options:
  1. Turn the printer off.
  2. Unplug the power cord from the wall outlet.
  3. Remove the excess flash memory.
  4. Connect the power cord to a properly grounded outlet.
  5. Turn the printer back on.
- Press ✓ to clear the message and continue printing.

58 Too many trays attached

1. Turn the printer off.
2. Unplug the power cord from the wall outlet.

   Note: Optional trays lock together when stacked. Remove stacked trays one at a time from the top down.
3. Remove the additional trays.
4. Connect the power cord to a properly grounded outlet.
5. Turn the printer back on.

80 Routine Maintenance

The printer needs to have scheduled maintenance done. Order a maintenance kit, which contains a fuser and a transfer roller. Contact Customer Support, and report the message.

84 PC Kit life warning

The photoconductor kit is near exhaustion.

Try one or more of the following:

- Replace the photoconductor kit.
- Press the up or down arrow button until √`Continue` appears, and then press ✓ to clear the message and continue printing.

84 Replace PC Kit

The photoconductor kit is exhausted. Install a new photoconductor kit.

88 Cartridge low

The toner is low. Replace the toner cartridge, and then press the up or down arrow button until √`Continue` appears, and then press ✓ to clear the message and continue printing.

1565 Emulation error, load emulation option

The printer automatically clears the message in 30 seconds and then disables the download emulator on the firmware card.

To fix this, download the correct download emulator version from the Lexmark Web site at **www.lexmark.com**.

Solving basic printer problems

If there are basic printer problems, or the printer is unresponsive, make sure:

- The power cord is plugged into the printer and a properly grounded electrical outlet.
- The electrical outlet is not turned off by any switch or breaker.
- The printer is not plugged into any surge protectors, uninterrupted power supplies, or extension cords.
- Other electronic equipment plugged into the outlet is working.
- The printer is turned on. Check the printer power switch.
- The printer cable is securely attached to the printer and the host computer, print server, option, or other network device.
- All options are properly installed.
- The printer driver settings are correct.

Once you have checked each of these possibilities, turn the printer off, wait for about 10 seconds, and then turn the printer back on. This often fixes the problem.

Printer control panel display is blank or displays only diamonds

The printer self test failed. Turn the printer off, wait about 10 seconds, and then turn the printer back on.

If `Performing Self Test` and `Ready` do not appear, turn the printer off and contact Customer Support.

Solving printing problems

Jobs do not print

These are possible solutions. Try one or more of the following:

Make sure the printer is ready to print

Make sure `Ready` or `Power Saver` appears on the display before sending a job to print.

Check to see if the standard exit bin is full

Remove the stack of paper from the standard exit bin.

Check to see if the paper tray is empty

Load paper in the tray.

Make sure the correct printer software is installed

- Verify that you are using the correct printer software.
- If you are using a USB port, make sure you are running a supported operating system and using compatible printer software.

Make sure the internal print server is installed properly and working

- Make sure the internal print server is properly installed and that the printer is connected to the network. For more information about installing a network printer, click **View User's Guide and Documentation** on the *Software and Documentation* CD.
- Print a network setup page and check that the status shows **Connected**. If the status is **Not Connected**, check the network cables, and then try printing the network setup page again. Contact your system support person to make sure the network is functioning correctly.

Copies of the printer software are also available on the Lexmark Web site at **www.lexmark.com**.

Make sure you are using a recommended printer cable

For more information, visit the Lexmark Web site at **www.lexmark.com**.

Make sure printer cables are securely connected

Check the cable connections to the printer and print server to make sure they are secure.

For more information, see the setup documentation that came with the printer.

Confidential and other held jobs do not print

These are possible solutions. Try one or more of the following:

Partial job, no job, or blank pages print

The print job may contain a formatting error or invalid data.

- Delete the print job, and then print it again.
- For PDF documents, recreate the PDF and then print it again.

Make sure the printer has sufficient memory

Free up additional printer memory by scrolling through the list of held jobs and deleting some of them.

Multiple-language PDFs do not print

The documents contain unavailable fonts.

1. Open the document you want to print in Adobe Acrobat.
2. Click the printer icon.

   The Print dialog appears.

3 Select **Print as image**.

4 Click **OK**.

Job takes longer than expected to print

These are possible solutions. Try one or more of the following:

Reduce the complexity of the print job

Eliminate the number and size of fonts, the number and complexity of images, and the number of pages in the job.

Change the Page Protect setting to Off

1 From the printer control panel, press .

2 Press the up or down arrow button until √**Settings** appears, and then press .

3 Press the up or down arrow button until √**General Settings** appears, and then press .

4 Press the up or down arrow button until √**Print Recovery** appears, and then press .

5 Press the up or down arrow button until √**Page Protect** appears, and then press .

6 Press the up or down arrow button until √**Off** appears, and then press .

Job prints from the wrong tray or on the wrong paper

Check the Paper Type setting

Make sure the Paper Type setting matches the paper loaded in the tray.

Incorrect characters print

Make sure the printer is not in Hex Trace mode. If **Ready Hex** appears on the display, you must exit Hex Trace mode before you can print your job. Turn the printer off and back on to exit Hex Trace mode.

Tray linking does not work

Load the same size and type of paper in each tray

1 Load the same size and type of paper in each tray.

2 Move the paper guides to the correct positions for the paper size loaded in each tray.

Make sure the Paper Size and Paper Type settings are the same for each tray

1. Print a menu settings page and compare the settings for each tray.
2. If necessary, adjust the settings from the Paper Size/Type menu.

Note: None of the paper sources, trays, or feeders automatically sense the paper size. You must set the size from the Paper Size/Type menu on the printer control panel or from the Embedded Web Server.

Large jobs do not collate

These are possible solutions. Try one or more of the following:

Make sure Collate is set to On

From Print Properties or the printer control panel Finishing menu, set Collate to On.

Note: Setting Collate to Off in the software overrides the setting in the Finishing menu.

Reduce the complexity of the print job

Reduce the complexity of the print job by reducing the number and size of fonts, the number and complexity of images, and the number of pages in the job.

Make sure the printer has enough memory

Add printer memory.

Unexpected page breaks occur

Increase the Print Timeout value:

1. From the printer control panel, press .
2. Press the up or down arrow button until √**Settings** appears, and then press .
3. Press the up or down arrow button until √**General Settings** appears, and then press .
4. Press the up or down arrow button until √**Timeouts** appears, and then press .
5. Press the up or down arrow button until √**Print Timeout** appears, and then press .
6. Press the up or down arrow button until the value you want appears, and then press .

Envelope seals when printing

Due to humidity and heat, some envelopes become sealed during the printing process. If this happens, open the rear door of the printer to allow envelopes to exit there.

Solving option problems

Option does not operate correctly or quits after it is installed

These are possible solutions. Try one or more of the following:

Reset the printer

Turn the printer off, wait for about 10 seconds, and then turn the printer on.

Check to see if the option is connected to the printer

1. Turn the printer off.
2. Unplug the printer from the wall outlet.
3. Check the connection between the option and the printer.

Make sure the option is installed

Print a menu settings page and check to see if the option is listed in the Installed Options list. If the option is not listed, reinstall it.

Make sure the option is selected

From the program you are using, select the option. Mac OS 9 users should make sure the printer is set up in the Chooser.

Drawers

These are possible solutions. Try one or more of the following:

Make sure the paper is loaded correctly

1. Pull the tray completely out.
2. Check for paper jams or misfeeds.
3. Make sure the guides are aligned against the edges of the paper.
4. Insert the tray.

Reset the printer

Turn the printer off, wait about 10 seconds, and then turn the printer on.

Flash memory card

Make sure the flash memory card is securely connected to the printer system board.

Memory card

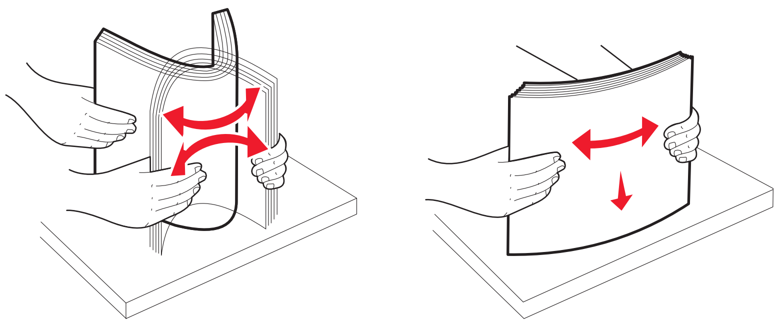
Make sure the memory card is securely connected to the printer system board.

Solving paper feed problems

Paper frequently jams

These are possible solutions. Try one or more of the following:

Fan, flex, and straighten the paper in the tray or feeder



Turn the stack of paper over, if possible, when you reload it into the tray or feeder.

Check the paper

Use recommended paper and other specialty media. For more information, see “Paper and specialty media guidelines” on page 57.

Make sure there is not too much paper in the tray or feeder

Make sure the stack of paper you load does not exceed the maximum stack height indicated in the tray or on the multipurpose feeder.

Check the guides

Move the guides in the tray to the correct positions for the paper size loaded.

Load paper from a fresh package

The paper may have absorbed moisture due to high humidity. Store the paper in its original wrapper until you use it.

Paper jam message remains after jam is cleared

The paper path is not clear. Clear jammed paper from the entire paper path, and then press ✓.

Page that jammed does not reprint after you clear the jam

Jam Recovery is set to Off. Set Jam Recovery to Auto or On:

1. Press the menu button.
2. Press the up or down arrow button until √Settings appears, and then press the select button.
3. Press the up or down arrow button until √General Settings appears, and then press the select button.
4. Press the up or down arrow button until √Print Recovery appears, and then press the select button.
5. Press the up or down arrow button until √Jam Recovery appears, and then press the select button.
6. Press the up or down arrow button until √On or √Auto appears, and then press the select button.

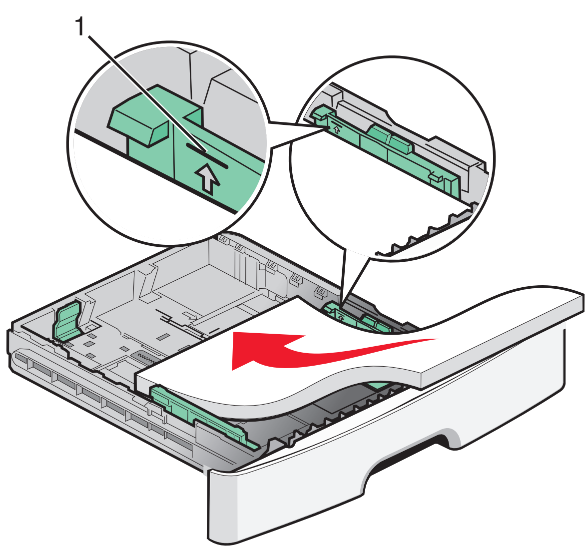
Solving print quality problems

The information in the following topics may help you solve print quality problems. If these suggestions still do not correct the problem, then contact Customer Support. You may have a printer part that requires adjustment or replacement.

Isolating print quality problems

To help isolate print quality problems, print the print quality test pages, but first make sure the standard tray is loaded:

1. Turn the printer off.
2. Load letter- or A4-size paper in the standard tray. Load the paper stack toward the back of the tray as shown with the recommended print side facedown. Notice the maximum fill line on the side of the tray to guide you. Do not overfill the tray.



Print the print quality test pages:

1. Turn the printer off.
2. From the printer control panel, hold down the select button and the right arrow button while turning the printer on.

3 Release the buttons when **CONFIG MENU** appears.

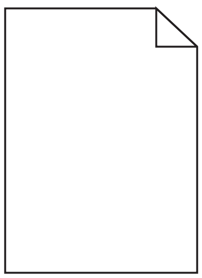
4 Press the arrow buttons until **Prt Quality Pgs** appears, and then press ✓.

The print quality test pages print.

5 Press the arrow buttons until **Exit Config Menu** appears, and then press ✓.

Resetting the Printer appears briefly, and then **Ready** appears.

Blank pages

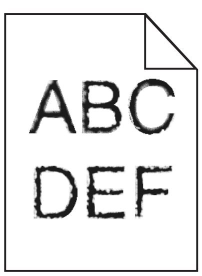


Try one or more of the following:

- Remove and reinstall the toner cartridge.
- Remove and reinstall the photoconductor kit.

If the printer still prints blank pages, it may need to be serviced. For more information, contact Customer Support.

Characters have jagged or uneven edges



If you are using downloaded fonts, verify that the fonts are supported by the printer, the host computer, and the software program.

Clipped images

These are possible solutions. Try one or more of the following:

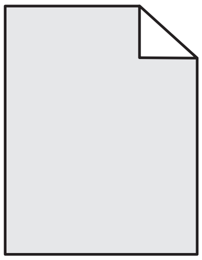
Check the guides

Move the width and length guides in the tray to the correct positions for the paper size loaded.

Check the Paper Size setting

Make sure the Paper Size setting matches the paper loaded in the tray.

Gray background



- For Windows users: From Print Properties, select a different Toner Darkness setting before sending the job to print.
- For Macintosh users: From the print options, Copies & Pages, or General pop-up menu, choose Printer Features, and then choose the setting needed from the Toner Darkness pop-up menu.
- From the printer control panel Quality menu, select a different Toner Darkness setting before sending the job to print.

Ghost images



These are possible solutions. Try one or more of the following:

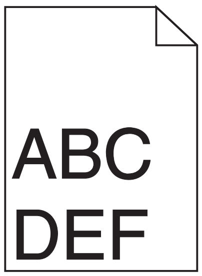
The photoconductor kit is defective

Replace the photoconductor kit.

Check the Paper Type setting

- For Windows users: From Print Properties, make sure the Paper Type setting matches the paper loaded in the tray.
- For Macintosh users: From the Print dialog, make sure the Paper Type setting matches the paper loaded in the tray.
- From the printer control panel Paper menu, make sure the Paper Type setting matches the paper loaded in the tray.

Incorrect margins



These are possible solutions. Try one or more of the following:

Check the guides

Move the width and length guides in the tray to the correct positions for the paper size loaded.

Check the Paper Size setting

Make sure the Paper Size setting matches the paper loaded in the tray.

Check the Page size setting

Before sending the job to print, specify the correct page size in Print Properties, the Print dialog, or the software program.

Paper curl

These are possible solutions. Try one or more of the following:

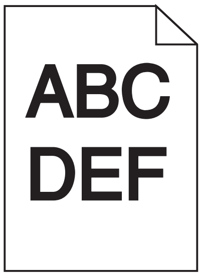
Check the Paper Type setting

- For Windows users: From Print Properties, make sure the Paper Type setting matches the paper loaded in the tray.
- For Macintosh users: From the Print dialog, make sure the Paper Type setting matches the paper loaded in the tray.
- From the printer control panel Paper menu, make sure the Paper Type setting matches the paper loaded in the tray.

The paper has absorbed moisture due to high humidity

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

Print is too dark



These are possible solutions. Try one or more of the following:

Check the darkness, brightness, and contrast settings

The Toner Darkness setting is too dark, the Brightness setting is too dark, or the Contrast setting is too high.

- For Windows users: From Print Properties, change these settings.
- For Macintosh users:
  1. Choose **File** > **Print**.
  2. Locate the drop-down box under the Orientation pictures, and then click the down button.
  3. Click **Printer Features**.
  4. Change the settings for Toner Darkness, Brightness, and Contrast.
- From the printer control panel Quality menu, change these settings.

The paper has absorbed moisture due to high humidity

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

Check the paper

Avoid textured paper with rough finishes.

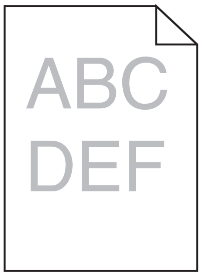
Check the Paper Type setting

- For Windows users: From Print Properties, make sure the Media Type setting matches the paper loaded in the tray.
- For Macintosh users: From the Print dialog, make sure the Paper Type setting matches the paper loaded in the tray.
- From the printer control panel Paper menu, make sure the Paper Type setting matches the paper loaded in the tray.

The toner cartridge may be defective

Replace the toner cartridge.

Print is too light



These are possible solutions. Try one or more of the following:

Check the darkness, brightness, and contrast settings

The Toner Darkness setting is too light, the Brightness setting is too light, or the Contrast setting is too low.

- From the printer control panel, change these settings from the Quality menu.
- For Windows users, change these settings from Print Properties.
- For Macintosh users, change these settings from the Print dialog and pop-up menus.

The paper has absorbed moisture due to high humidity

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

Check the paper

Avoid textured paper with rough finishes.

Check the paper type setting

Make sure the paper type setting matches the paper loaded in the tray:

1. From the printer control panel, check the Paper Type setting from the Paper menu.
2. Before sending the job to print, specify the correct type setting:
   - For Windows users, specify the type from Print Properties.
   - For Macintosh users, specify the type from the Print dialog.

The toner is low

When `88 Cartridge Low` appears, order a new print cartridge.

The print cartridge may be defective

Replace the print cartridge.

Skewed print

Check the paper guides

Move the guides in the tray to the correct positions for the paper size loaded.

Check the paper

Make sure you are using paper that meets the printer specifications.

Toner fog or background shading appears on the page

These are possible solutions. Try one or more of the following:

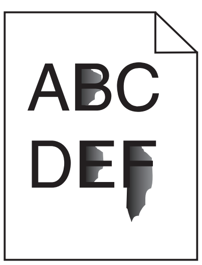
The toner cartridge may be defective

Replace the toner cartridge.

There is toner in the paper path

Contact Customer Support.

Toner rubs off



These are possible solutions. Try one or more of the following:

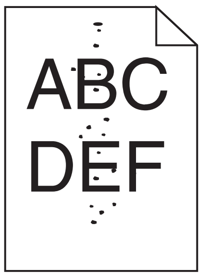
Check the Paper Type setting

Make sure the Paper Type setting matches the paper loaded in the tray.

Check the Paper Texture setting

Make sure the Paper Texture setting matches the paper loaded in the tray.

Toner specks



These are possible solutions. Try one or more of the following:

The toner cartridge may be defective

Replace the toner cartridge.

There is toner in the paper path

Contact Customer Support.

Transparency print quality is poor

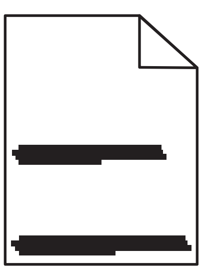
Check the transparencies

Use only transparencies recommended by the printer manufacturer.

Check the Paper Type setting

Load transparencies, and make sure the Paper Type setting is set to Transparency.

Streaked horizontal lines



These are possible solutions. Try one or more of the following:

The toner may smear when paper is fed from a specific source

From Print Properties, the Print dialog, or the printer control panel, select another tray or feeder to feed the paper for the job.

The toner cartridge may be defective

Replace the toner cartridge.

Make sure the paper path is clear

Paper could be caught between the photoconductor kit and the fuser. Check the paper path around the fuser area.

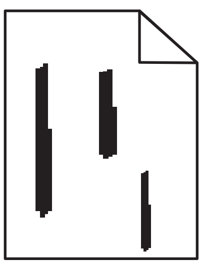
CAUTION—HOT SURFACE: The fuser and the inside of the printer near the fuser may be hot. To reduce the risk of injury from a hot component, allow the surface to cool before removing paper from this area.

Clear any paper you see.

There may be excess toner in the paper path

Contact Customer Support.

Streaked vertical lines



These are possible solutions. Try one or more of the following:

The toner may smear when paper is fed from a specific source

From Print Properties, the Print dialog, or the printer control panel, select another tray or feeder to feed paper for the job.

The toner cartridge is defective

Replace the toner cartridge.

Make sure the paper path is clear

Paper could be caught between the photoconductor kit and the fuser. Check the paper path around the fuser area.

Warning—Potential Damage: Do not touch the photoconductor on the underside of the photoconductor kit. Use the cartridge handle whenever you are holding the cartridge.

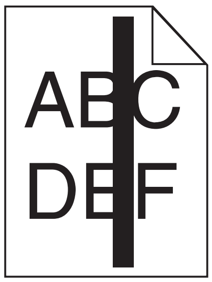
CAUTION—HOT SURFACE: The fuser and the inside of the printer near the fuser may be hot. To reduce the risk of injury from a hot component, allow the surface to cool before removing paper from this area.

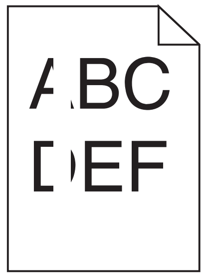
Clear any paper you see.

There may be excess toner in the paper path

Contact Customer Support.

Solid black or white streaks appear on transparencies or paper





These are possible solutions. Try one or more of the following:

Make sure the fill pattern is correct

If the fill pattern is incorrect, choose a different fill pattern from your software program.

Check the paper type

- Try a different type of paper.
- For transparencies, use only ones recommended by the printer manufacturer.
- Make sure the Paper Type setting matches what is loaded in the tray or feeder.
- Make sure the Paper Texture setting is correct for the type of paper or specialty media loaded in the tray or feeder.

Make sure the toner is distributed evenly in the toner cartridge

Remove the toner cartridge and shake it from side to side to redistribute the toner to extend the life of the cartridge, and then reinstall it.

The toner cartridge may be defective or low on toner

Replace the used toner cartridge with a new one.

Embedded Web Server does not open

These are possible solutions. Try one or more of the following:

Check the network connections

Make sure the printer and computer are turned on and connected to the same network.

Check the network settings

Depending on the network settings, you may need to type `https://` instead of `http://` before the printer IP address to access the Embedded Web Server. For more information, see your system administrator.

Contacting Customer Support

When you call Customer Support, describe the problem you are experiencing, the message on the display, and the troubleshooting steps you have already taken to find a solution.

You need to know your printer model type and serial number. For more information, see the label on the inside top front cover of the printer. The serial number is also listed on the menu settings page.

In the U.S. or Canada, call 1-800-539-6275. For other countries or regions, visit the Lexmark Web site at **http://support.lexmark.com**.

Notices

Product information

Product name:

Lexmark E460dn, Lexmark E460dw, Lexmark E462dtn

Machine type:

4513

Model(s):

630, 63W, 6EW

Edition notice

August 2011

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For Lexmark technical support, visit **http://support.lexmark.com**.

For information on supplies and downloads, visit **www.lexmark.com**.

If you don't have access to the Internet, you can contact Lexmark by mail:

Lexmark International, Inc.
Bldg 004-2/CSC
740 New Circle Road NW
Lexington, KY 40550
USA

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All other trademarks are the property of their respective owners.

Federal Communications Commission (FCC) compliance information statement

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Class B limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your point of purchase or service representative for additional suggestions.

The manufacturer is not responsible for radio or television interference caused by using other than recommended cables or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

Note: To assure compliance with FCC regulations on electromagnetic interference for a Class B computing device, use a properly shielded and grounded cable such as Lexmark part number 1021231 for parallel attach or 1021294 for USB attach. Use of a substitute cable not properly shielded and grounded may result in a violation of FCC regulations.

Any questions regarding this compliance information statement should be directed to:

Director of Lexmark Technology & Services
Lexmark International, Inc.
740 West New Circle Road
Lexington, KY 40550
(859) 232–3000

Modular component notice

Wireless-equipped models contain the following modular component(s):

Lexmark regulatory type/model LEX-M04-001; FCC ID:IYLLEXM04001; IC:2376A-M04001

Noise emission levels

The following measurements were made in accordance with ISO 7779 and reported in conformance with ISO 9296.

Note: Some modes may not apply to your product.

1-meter average sound pressure, dBA	
Printing	53 dBA
Ready	N/A

Values are subject to change. See **www.lexmark.com** for current values.

Waste from Electrical and Electronic Equipment (WEEE) directive



The WEEE logo signifies specific recycling programs and procedures for electronic products in countries of the European Union. We encourage the recycling of our products. If you have further questions about recycling options, visit the Lexmark Web site at **www.lexmark.com** for your local sales office phone number.

Static sensitivity notice



This symbol identifies static-sensitive parts. Do not touch in the areas near these symbols without first touching the metal frame of the printer.

ENERGY STAR

Any Lexmark product bearing the ENERGY STAR emblem on the product or on a start-up screen is certified to comply with Environmental Protection Agency (EPA) ENERGY STAR requirements as configured when shipped by Lexmark.

Temperature information

Ambient temperature	16C° – 32C° (60 F° – 90F°)
Shipping and storage temperature	-20.0C° – 40.0C° (-4 F° – 104F°)

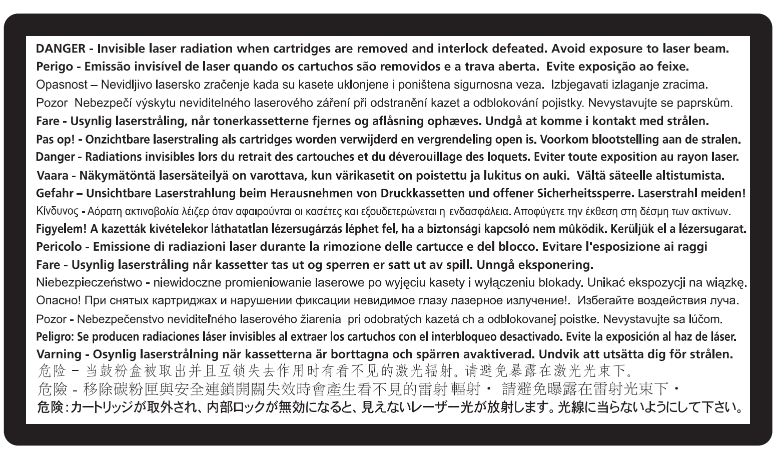
Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1.

Class I laser products are not considered to be hazardous. The printer contains internally a Class IIIb (3b) laser that is nominally a 7 milliwatt gallium arsenide laser operating in the wavelength of 655-675 nanometers. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

Laser advisory label

A laser notice label may be affixed to this printer as shown:



DANGER - Invisible laser radiation when cartridges are removed and interlock defeated. Avoid exposure to laser beam.
Perigo - Emissão invisível de laser quando os cartuchos são removidos e a trava aberta. Evite exposição ao feixe.
Opasnost – Nevidljivo lasersko zračenje kada su kasete uklonjene i poništena sigurnosna veza. Izbjegavati izlaganje zracima.
Pozor Nebezpečí výskytu neviditelného laserového záření při odstranění kazet a odblokování pojistky. Nevystavujte se paprskům.
Fare - Usynlig laserstråling, når tonerkassetterne fjernes og aflåsning ophæves. Undgå at komme i kontakt med strålen.
Pas op! - Onzichtbare laserstraling als cartridges worden verwijderd en vergrendeling open is. Voorkom blootstelling aan de stralen.
Danger - Radiations invisibles lors du retrait des cartouches et du déverouillage des loquets. Eviter toute exposition au rayon laser.
Vaara - Näkymätöntä lasersäteilyä on varottava, kun värikasetit on poistettu ja lukitus on auki. Vältä säteelle altistumista.
Gefahr – Unsichtbare Laserstrahlung beim Herausnehmen von Druckkassetten und offener Sicherheitssperre. Laserstrahl meiden!
Κίνδυνος - Αόρατη ακτινοβολία λέιζερ όταν αφαιρούνται οι κασέτες και εξουδετερώνεται η ενδασφάλεια. Αποφύγετε την έκθεση στη δέσμη των ακτίνων.
Figyelem! A kazetták kivételekor láthatatlan lézersugárzás léphet fel, ha a biztonsági kapcsoló nem mûködik. Kerüljük el a lézersugarat.
Pericolo - Emissione di radiazioni laser durante la rimozione delle cartucce e del blocco. Evitare l'esposizione ai raggi
Fare - Usynlig laserstråling når kassetter tas ut og sperren er satt ut av spill. Unngå eksponering.
Niebezpieczeństwo - niewidoczne promieniowanie laserowe po wyjęciu kasety i wyłączeniu blokady. Unikać ekspozycji na wiązkę.
Опасно! При снятых картриджах и нарушении фиксации невидимое глазу лазерное излучение!. Избегайте воздействия луча.
Pozor - Nebezpečenstvo neviditeľného laserového žiarenia pri odobratých kazetá ch a odblokovanej poistke. Nevystavujte sa lúčom.
Peligro: Se producen radiaciones láser invisibles al extraer los cartuchos con el interbloqueo desactivado. Evite la exposición al haz de láser.
Varning - Osynlig laserstrålning när kassetterna är borttagna och spärren avaktiverad. Undvik att utsätta dig för strålen.
危险 – 当鼓粉盒被取出并且互锁失去作用时有看不见的激光辐射。请避免暴露在激光光束下。
危險 - 移除碳粉匣與安全連鎖開關失效時會產生看不見的雷射 輻射・ 請避免曝露在雷射光束下・
危険：カートリッジが取外され、内部ロックが無効になると、見えないレーザー光が放射します。光線に当らないようにして下さい。

Power consumption

Product power consumption

The following table documents the power consumption characteristics of the product.

Note: Some modes may not apply to your product.

Mode	Description	Power consumption (Watts)
Printing	The product is generating hard-copy output from electronic inputs.	500
Copying	The product is generating hard-copy output from hard-copy original documents.	N/A
Scanning	The product is scanning hard-copy documents.	N/A
Ready	The product is waiting for a print job.	12-14
Power Saver	The product is in energy-saving mode.	11-13
Off	The product is plugged into a wall outlet, but the power switch is turned off.	0

The power consumption levels listed in the previous table represent time-averaged measurements. Instantaneous power draws may be substantially higher than the average.

Values are subject to change. See **www.lexmark.com** for current values.

Power Saver

This product is designed with an energy-saving mode called Power Saver. The Power Saver Mode is equivalent to the Sleep Mode. The Power Saver Mode saves energy by lowering power consumption during extended periods of inactivity. The Power Saver Mode is automatically engaged after this product is not used for a specified period of time, called the Power Saver Timeout.

Factory default Power Saver Timeout for this product (in minutes):	30

By using the configuration menus, the Power Saver Timeout can be modified between 1 minute and 240 minutes. Setting the Power Saver Timeout to a low value reduces energy consumption, but may increase the response time of the product. Setting the Power Saver Timeout to a high value maintains a fast response, but uses more energy.

Off mode

If this product has an off mode which still consumes a small amount of power, then to completely stop product power consumption, disconnect the power supply cord from the wall outlet.

Total energy usage

It is sometimes helpful to calculate the total product energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the product spends in each mode in order to calculate energy usage. The total product energy usage is the sum of each mode's energy usage.

Industry Canada compliance statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Standard ICES-003.

Avis de conformité aux normes de l’industrie du Canada

Cet appareil numérique de classe B est conforme aux exigences de la norme canadienne relative aux équipements pouvant causer des interférences NMB-003.

European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directives 2004/108/EC and 2006/95/EC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility and safety of electrical equipment designed for use within certain voltage limits.

The manufacturer of this product is: Lexmark International, Inc., 740 West New Circle Road, Lexington, KY, 40550 USA. The authorized representative is: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY, A declaration of conformity to the requirements of the Directives is available upon request from the Authorized Representative.

This product satisfies the Class B limits of EN 55022 and safety requirements of EN 60950.

Regulatory notices for wireless products

This section contains the following regulatory information pertaining to wireless products that contain transmitters, for example, but not limited to, wireless network cards or proximity card readers.

Exposure to radio frequency radiation

The radiated output power of this device is far below the radio frequency exposure limits of the FCC and other regulatory agencies. A minimum separation of 20 cm (8 inches) must be maintained between the antenna and any persons for this device to satisfy the RF exposure requirements of the FCC and other regulatory agencies.

Industry Canada (Canada)

This device complies with Industry Canada specification RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate only with the antenna provided. Use of any other antenna is strictly prohibited per regulations of Industry Canada.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF fields in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site www.hc-sc.gc.ca/rpb.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Industry Canada (Canada)

Cet appareil est conforme à la norme RSS-210 d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes :

(1) cet appareil ne doit pas provoquer d'interférences et (2) il doit accepter toute interférence reçue, y compris celles risquant d'altérer son fonctionnement.

Cet appareil a été conçu pour fonctionner uniquement avec l'antenne fournie. L'utilisation de toute autre antenne est strictement interdite par la réglementation d'Industry Canada.

En application des réglementations d'Industry Canada, l'utilisation d'une antenne de gain supérieur est strictement interdite.

Pour empêcher toute interférence radio au service faisant l'objet d'une licence, cet appareil doit être utilisé à l'intérieur et loin des fenêtres afin de garantir une protection optimale.

Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

L'installateur de cet équipement radio doit veiller à ce que l'antenne soit implantée et dirigée de manière à n'émettre aucun champ HF dépassant les limites fixées pour l'ensemble de la population par Santé Canada. Reportez-vous au Code de sécurité 6 que vous pouvez consulter sur le site Web de Santé Canada www.hc-sc.gc.ca/rpb.

Le terme « IC » précédant le numéro de d'accréditation/inscription signifie simplement que le produit est conforme aux spécifications techniques d'Industry Canada.

Notice to users in the European Union

Products bearing the CE mark are in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC, and 1999/5/EC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility, safety of electrical equipment designed for use within certain voltage limits and on radio equipment and telecommunications terminal equipment.

Compliance is indicated by the CE marking.

The manufacturer of this product is: Lexmark International, Inc., 740 West New Circle Road, Lexington, KY, 40550 USA. The authorized representative is: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY, A declaration of conformity to the requirements of the Directives is available upon request from the Authorized Representative.

This product satisfies the Class B limits of EN 55022 and safety requirements of EN 60950.

Products equipped with 2.4GHz Wireless LAN option are in conformity with the protection requirements of EC Council directives 2004/108/EC, 2006/95/EC, and 1999/5/EC on the approximation and harmonization of the laws of the

Member States relating to electromagnetic compatibility, safety of electrical equipment designed for use within certain voltage limits and on radio equipment and telecommunications terminal equipment.

Compliance is indicated by the CE marking.

Operation is allowed in all EU and EFTA countries, but is restricted to indoor use only.

The manufacturer of this product is: Lexmark International, Inc., 740 West New Circle Road, Lexington, KY, 40550 USA. The authorized representative is: Lexmark International Technology Hungária Kft., 8 Lechner Ödön fasor, Millennium Tower III, 1095 Budapest HUNGARY, A declaration of conformity to the requirements of the Directives is available upon request from the Authorized Representative.

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Statement of Limited Warranty

Lexmark E460dn, Lexmark E460dw, Lexmark E462dtn

Lexmark International, Inc., Lexington, KY

This limited warranty applies to the United States and Canada. For customers outside the U.S., refer to the country-specific warranty information that came with your product.

This limited warranty applies to this product only if it was originally purchased for your use, and not for resale, from Lexmark or a Lexmark Remarketer, referred to in this statement as "Remarketer."

Limited warranty

Lexmark warrants that this product:

—Is manufactured from new parts, or new and serviceable used parts, which perform like new parts

—Is, during normal use, free from defects in material and workmanship

If this product does not function as warranted during the warranty period, contact a Remarketer or Lexmark for repair or replacement (at Lexmark's option).

If this product is a feature or option, this statement applies only when that feature or option is used with the product for which it was intended. To obtain warranty service, you may be required to present the feature or option with the product.

If you transfer this product to another user, warranty service under the terms of this statement is available to that user for the remainder of the warranty period. You should transfer proof of original purchase and this statement to that user.

Limited warranty service

The warranty period starts on the date of original purchase as shown on the purchase receipt and ends 12 months later provided that the warranty period for any supplies and for any maintenance items included with the printer shall end earlier if it, or its original contents, are substantially used up, depleted, or consumed.

To obtain warranty service you may be required to present proof of original purchase. You may be required to deliver your product to the Remarketer or Lexmark, or ship it prepaid and suitably packaged to a Lexmark designated location. You are responsible for loss of, or damage to, a product in transit to the Remarketer or the Lexmark designated location.

When warranty service involves the exchange of a product or part, the item replaced becomes the property of the Remarketer or Lexmark. The replacement may be a new or repaired item.

The replacement item assumes the remaining warranty period of the original product.

Replacement is not available to you if the product you present for exchange is defaced, altered, in need of a repair not included in warranty service, damaged beyond repair, or if the product is not free of all legal obligations, restrictions, liens, and encumbrances.

Before you present this product for warranty service, remove all print cartridges, programs, data, and removable storage media (unless directed otherwise by Lexmark).

For further explanation of your warranty alternatives and the nearest Lexmark authorized servicer in your area contact Lexmark on the World Wide Web at **http://support.lexmark.com**.

Remote technical support is provided for this product throughout its warranty period. For products no longer covered by a Lexmark warranty, technical support may not be available or only be available for a fee.

Extent of limited warranty

Lexmark does not warrant uninterrupted or error-free operation of any product or the durability or longevity of prints produced by any product.

Warranty service does not include repair of failures caused by:

—Modification or unauthorized attachments

—Accidents, misuse, abuse or use inconsistent with Lexmark user’s guides, manuals, instructions or guidance

—Unsuitable physical or operating environment

—Maintenance by anyone other than Lexmark or a Lexmark authorized servicer

—Operation of a product beyond the limit of its duty cycle

—Use of printing media outside of Lexmark specifications

—Refurbishment, repair, refilling or remanufacture by a third party of products, supplies or parts

—Products, supplies, parts, materials (such as toners and inks), software, or interfaces not furnished by Lexmark

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